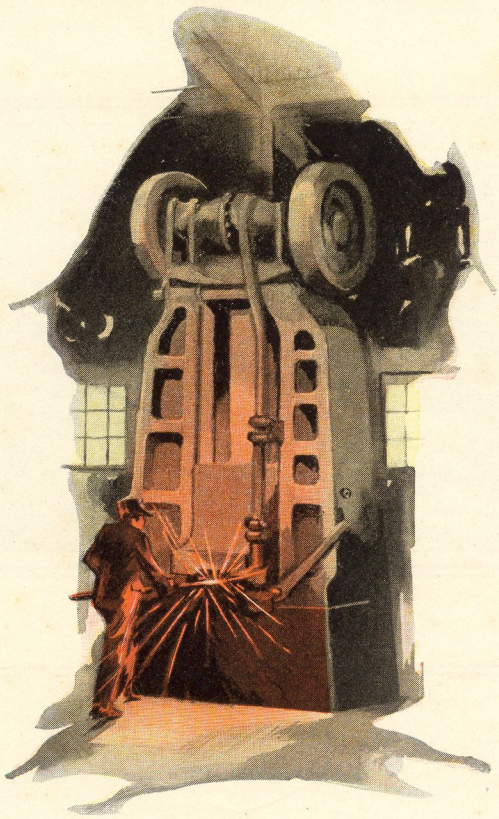
The

VLCHEK TOOL CO.

CLEVELAND, OHIO U.S.A.

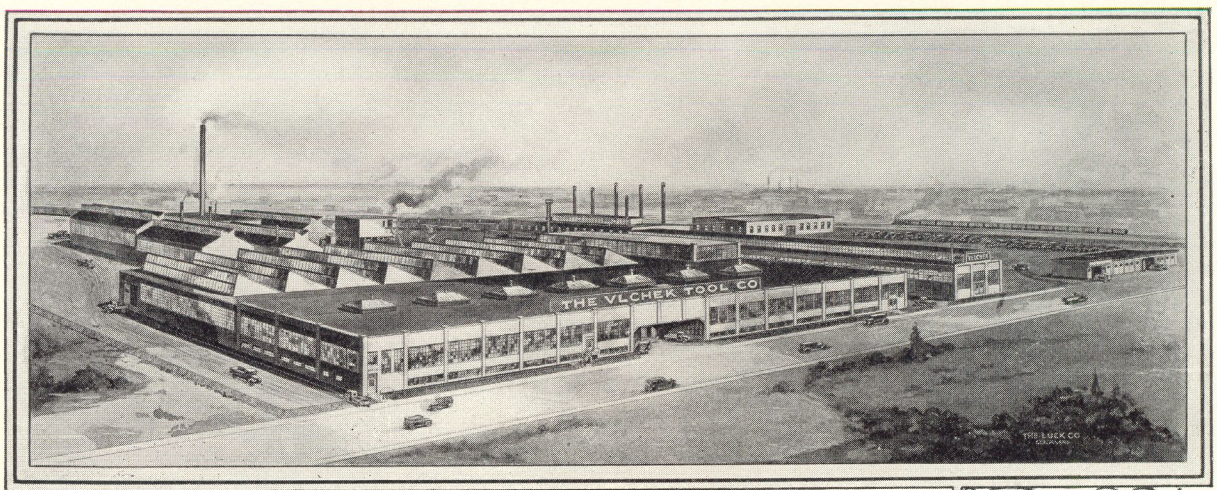
The VLCHEK TOOL COMPANY



CATALOG NO. 13

MANUFACTURERS OF
HIGH GRADE DROP FORGED
MECHANICS' HAND TOOLS
CLEVELAND OHIO U.S.A.

Export Dept.
90 West St., New York, N. Y.


THE VLCHEK TOOL CO

THE VLCHEK GUARANTEE

ALL tools shown in this catalog are guaranteed to be serviceable and free from defects. We maintain a chemical and metallurgical laboratory, an aggressive engineering department, and a highly competent inspection department to safeguard the quality of our tools.

Should any defects of workmanship or material be discovered, or should they develop after a reasonable period of fair usage, we will gladly replace such tools without charge.

We cannot guarantee any product against unfair use or natural wear. In case of dispute we request that tools be forwarded to the factory for examination and decision.

The Vlchek Tool Company

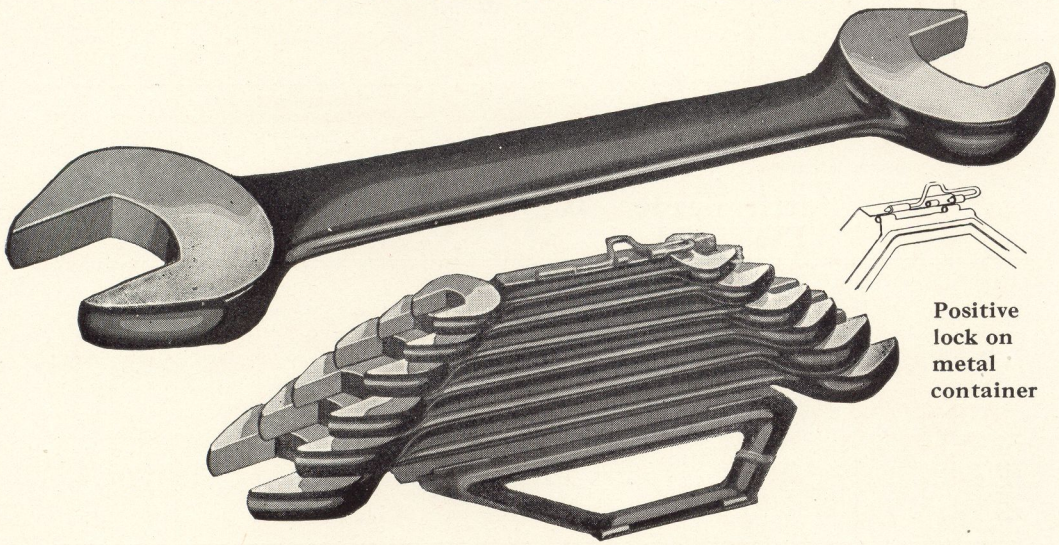
Original "6" Piece
Vlchek FITZ-ALL Wrench Set

"Parabolic" Carbon Steel Wrenches, Drop Forged

The Vlchek Tool Co. is the originator of the **"Wrench Set"** merchandising idea which has been so universally adopted.

The merchant sells a series of double end wrenches more quickly and at more profit than he formerly sold a single wrench.

Its popularity as a profitable and an economical merchandising idea is not questioned. Popular sets are offered to the trade in various sizes, finishes and prices.



Positive lock on metal container

In a New, all-metal, side hinged, positive locking container

This set consists of six (6) Drop Forged Double End Engineers' Wrenches.
Every Wrench opening a different size.

Wrench No.	Openings Milled	Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
723	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	4 1/8	1/4
725-B	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	5	9/32
27	19/32—11/16							5/16—3/8		6	5/16
729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16		7/16—1/2	7 1/8	11/32
31	25/32—7/8	9/16		9/16	5/8	9/16	9/16	7/16—1/2	9/16	8	13/32
33-B	13/16—15/16	1/2			9/16	5/8	1/2—5/8		5/8	9	7/16

No. 2153	Unfinished Tempered	Suggested List Price, Per Set,	**$1.25**
No. 2150	Ebony All Over	Suggested List Price, Per Set,	**1.45**
No. 2151	Semi Finished	Suggested List Price, Per Set,	**1.85**
***No. 2405**	Velco Rust Proof, (Udylite Process)	Suggested List Price, Per Set,	**1.60**

* Stamped with number and openings—Apple Green Container.

Approximate Weight, Per Set ..... 2 lbs. 12 oz.

Junior FITZ-ALL "6" Piece Set

"Parabolic" Carbon Steel Wrenches, Drop Forged

Wrench No.	Openings Milled	Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD				Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
			Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough and Semi-Finished Square and Hex. Reg. Bolt Heads					
21	5/16—13/32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3 3/4	3/16
723	3/8—7/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	5/16—3/8	5/16—3/8	4 1/8	1/4
725-B	1/2—9/16									5	5/32
27	19/32—11/16									6	5/16
729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16	7/16—1/2	7/16—1/2	7 1/8	11/32
31	25/32—7/8	9/16		9/16	5/8	9/16	9/16		9/16	8	13/32

No. 2419	Unfinished Tempered	Suggested List Price, Per Set,	$1.05
No. 2441	Ebony All Over	Suggested List Price, Per Set,	1.20
No. 2440	Semi-Finished	Suggested List Price, Per Set,	1.55
*No. 2451	Velco Rust-Proof (Udylite Process)	Suggested List Price, Per Set,	1.35
	Approximate Weight, Per Set		1 lb. 14 oz.

Little Leader FITZ-ALL "5" Piece Set

Wrench No.	Openings Milled	Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD				Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
			Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough and Semi-Finished Square and Hex. Reg. Bolt Heads					
21	5/16—13/32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	3 3/4	3/16
723	3/8—7/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	5/16—3/8	5/16—3/8	4 1/8	1/4
725-B	1/2—9/16									5	9/32
27	19/32—11/16									6	5/16
729	5/8—3/4	3/4—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16	7/16—1/2	7/16—1/2	7 1/8	11/32

No. 2154	Unfinished Tempered	Suggested List Price, Per Set,	$0.80
No. 2155	Ebony All Over	Suggested List Price, Per Set,	.95
No. 2156	Semi-Finished	Suggested List Price, Per Set,	1.15
*No. 2413	Velco Rust-Proof (Udylite Process)	Suggested List Price, Per Set,	1.05
	Approximate Weight, Per Set		1 lb. 4 oz.

Large FITZ-ALL "5" Piece Set

Wrench No.	Openings Milled	Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD				Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
			Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough and Semi-Finished Square and Hex. Reg. Bolt Heads					
723	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4 1/8	1/4
725-B	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	5/16—3/8	5/16—3/8	5	9/32
27	19/32—11/16									6	5/16
729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16	7/16—1/2	7/16—1/2	7 1/8	11/32
31	25/32—7/8	9/16		9/16	5/8	9/16	9/16		9/16	8	13/32

No. 2157	Unfinished Tempered	Suggested List Price, Per Set,	$0.95
No. 2158	Ebony All Over	Suggested List Price, Per Set,	1.10
No. 2159	Semi-Finished	Suggested List Price, Per Set,	1.40
*No. 2414	Velco Rust-Proof (Udylite Process)	Suggested List Price, Per Set,	1.20

* Stamped with number and openings—Apple Green Container.

Same type containers furnished with above sets, except smaller, as shown on Page No. 1

Approximate Weight, Per Set ..... 1 lb. 12 oz.

Important Announcement

THE following pages will bring to your attention another of the steps which Vlchek is taking toward the simplification and the modernization of the small tool line. In studying the requirements of wrench users we found that 28 out of 54 sizes supplied by all recognized wrench manufacturers, including ourselves, were merely duplications, and of small practical value to the consumer. These numbers merely clog your inventory and cut down your profit, while performing no useful service to anyone.

We have, therefore, indicated the useful numbers in the following tables by **THE USE OF RED PRINT.** In order to increase your inventory turnover and your profits, we strongly urge that your selection of wrenches be confined to these numbers. They include all openings embraced in the entire list, and they will fit any standard bolt or nut made. The numbers shown in light type merely provide additional combinations, and we have found that they are of little practical value and are generally slow movers. We are continuing to make them for only one reason—that you may be able to meet any competition offered.

In our study we also found that other wrench manufacturers have not as yet given adequate consideration to the new American Standards, with the result that several desirable combinations of openings do not appear at all in the standard wrench tables. One very important opening—$1\frac{5}{16}$" — does not appear in any wrench manufactured outside of our line. In order better to provide for the new American Standards, we have added five new numbers and submit the following tables of wrenches as the most scientific, the most practical and, within the range of limiting sizes, the most complete line of double end wrenches offered by any manufacturer.

We especially wish to call your attention to the fact that this line of wrenches has been so planned that, whether the consumer is using American Standard bolts and nuts, U. S. Standard or S. A. E. Standard, he can buy wrenches which will take all sizes of any of these Standards with a minimum of duplications. For instance, all sizes of American Standard cap screws up to $1\frac{1}{4}$" can be taken with a set consisting of No. 725, No. 727, No. 731, No. 733, No. 37-A (new), and No. 741 (new) wrenches; all sizes of S. A. E. bolts and nuts up to $1\frac{1}{8}$" can be taken with a set consisting of No. 725, No. 727, No. 731-A, No. 34-A, No. 37, and No. 41. Similar conditions also prevail as to the other standard bolts, nuts and screws.

The tables have also been so planned that where duplications are desired each opening will appear twice, once in the large head of any given wrench and again in the small head of the next larger forging.

We think you will greatly appreciate a line of wrenches which will enable you, with 31 numbers, to provide not only all the openings furnished by your competitor's 54 sizes but also one additional opening and several very desirable combinations which he is unable to furnish. We are glad to be able to give you this additional service, and we say to you that you can buy these recommended numbers with perfect confidence; sure of the fact that you will have only desirable numbers, which will increase your inventory turnover and your profits.

Table of Wrench Openings for Various Types of Bolts and Nuts

This table will be found helpful when selecting the proper size wrenches for various types of bolts and nuts up to 1 11/16" opening. It gives full data on American Standard Sizes, which are gradually replacing the USS and SAE Standards, and also latest standards for Cap Screw Sizes, which are universally adopted by all important bolt manufacturers.

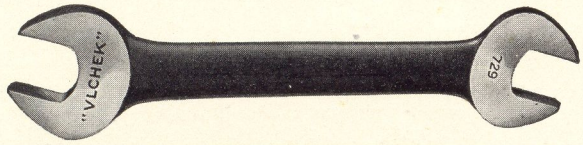
Nominal Wrench Opening	AMERICAN STANDARD								Nominal Wrench Opening
	1 Rough, Semi-Fin. & Finished Square & Hex. Reg. & Jam Nuts	2 Hexagon Light Nuts	3 Hexagon Castel-lated Nuts	4 For Hexagon Head Cap Screws	5 Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	6 Finished Square & Hex. Bolt Heads	7 For USS Nuts and Bolt Heads	8* For SAE Nuts, Plain, Jam & Castel-lated	
5/16									5/16
3/8					1/4				3/8
13/32									13/32
7/16	1/4	1/4	1/4	1/4		1/4		1/4	7/16
1/2		5/16	5/16	5/16	5/16		1/4	5/16	1/2
9/16	5/16	3/8	3/8	3/8	3/8	5/16		3/8	9/16
19/32							5/16		19/32
5/8	3/8	7/16	7/16	7/16	7/16	3/8		7/16	5/8
11/16							3/8		11/16
3/4	7/16	1/2	1/2	1/2	1/2	7/16		1/2	3/4
25/32							7/16		25/32
13/16	1/2			9/16		1/2			13/16
7/8	9/16		9/16	5/8	9/16	9/16	1/2	9/16	7/8
15/16					5/8	5/8		5/8	15/16
31/32							9/16		31/32
1	5/8		5/8	3/4					1
1 1/16							5/8	3/4	1 1/16
1 1/8	3/4		3/4	7/8	3/4	3/4			1 1/8
1 1/4							3/4	7/8	1 1/4
1 5/16	7/8		7/8	1	7/8	7/8			1 5/16
1 7/16							7/8	1	1 7/16
1 1/2	1		1	1 1/8	1	1			1 1/2
1 5/8							1	1 1/8	1 5/8
1 11/16	1 1/8		1 1/8	1 1/4	1 1/8	1 1/8			1 11/16

*Recent SAE Specifications have replaced SAE Standards, as shown in Column 8, by American Standards, using Light Nuts, as per Column 2, for sizes up to and including 1/2", and Regular Nuts, as per Column 1, from 9/16" up, as shown in **Bold Type.**

Vlchek PARABOLIC Carbon Steel

ENGINEERS' WRENCHES and CAP SCREW WRENCHES

15° Angle
Drop Forged



Double Head
Tempered

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads	Suggested List Price
21-S	1/4 — 5/16									3	1/8	$0.27
721	5/16 — 3/8					1/4				3 3/4	3/16	.27
21	5/16 — 13/32									3 3/4	3/16	.27
722	5/16 — 7/16	1/4	1/4	1/4	1/4		1/4		1/4	4 1/8	1/4	.27
22	5/16 — 1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 1/8	1/4	.27
723	3/8 — 7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	4 1/8	1/4	.27
723-A	3/8 — 1/2		5/16	5/16	5/16	1/4 — 5/16		1/4	5/16	4 1/8	1/4	.27
23	13/32 — 1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 1/8	1/4	.27
724	3/8 — 9/16	5/16	3/8	3/8	3/8	1/4 — 3/8	5/16		3/8	5	9/32	.30
24	13/32 — 19/32							5/16		5	9/32	.30
725	7/16 — 1/2	1/4	1/4 — 5/16	1/4 — 5/16	1/4 — 5/16	5/16	1/4	1/4	1/4 — 5/16	5	9/32	.30
725-A	7/16 — 9/16	1/4 — 5/16	1/4 — 3/8	1/4 — 3/8	1/4 — 3/8	3/8	1/4 — 5/16		1/4 — 3/8	5	9/32	.30
725-B	1/2 — 9/16	5/16	5/16 — 3/8	5/16 — 3/8	5/16 — 3/8	5/16 — 3/8	5/16	1/4	5/16 — 3/8	5	9/32	.30
25	1/2 — 19/32		5/16	5/16	5/16	5/16		1/4 — 5/16	5/16	5	9/32	.30
726	1/2 — 5/8	3/8	5/16 — 7/16	5/16 — 7/16	5/16 — 7/16	5/16 — 7/16	3/8	1/4	5/16 — 7/16	6	5/16	.36
26	1/2 — 11/16		5/16	5/16	5/16	5/16		1/4 — 3/8	5/16	6	5/16	.36
727	9/16 — 5/8	5/16 — 3/8	3/8 — 7/16	3/8 — 7/16	3/8 — 7/16	3/8 — 7/16	5/16 — 3/8		3/8 — 7/16	6	5/16	.36
27-C	9/16 — 11/16	5/16	3/8	3/8	3/8	3/8	5/16	3/8	3/8	6	5/16	.36
27	19/32 — 11/16							5/16 — 3/8		6	5/16	.36
728	9/16 — 3/4	5/16 — 7/16	3/8 — 1/2	3/8 — 1/2	3/8 — 1/2	3/8 — 1/2	5/16 — 7/16		3/8 — 1/2	7 1/8	11/32	.42
28	19/32 — 25/32							5/16 — 7/16		7 1/8	11/32	.42
729	5/8 — 3/4	3/8 — 7/16	7/16 — 1/2	7/16 — 1/2	7/16 — 1/2	7/16 — 1/2	3/8 — 7/16		7/16 — 1/2	7 1/8	11/32	.42
28-S	5/8 — 25/32	3/8	7/16	7/16	7/16	7/16	3/8	7/16	7/16	7 1/8	11/32	.42
29	11/16 — 25/32							3/8 — 7/16		7 1/8	11/32	.42
730	5/8 — 13/16	3/8 — 1/2	7/16	7/16	7/16 — 9/16	7/16	3/8 — 1/2		7/16	8	13/32	.53
730-A	5/8 — 7/8	3/8 — 9/16	7/16	7/16 — 9/16	7/16 — 5/8	7/16 — 9/16	3/8 — 9/16	1/2	7/16 — 9/16	8	13/32	.53
30	11/16 — 7/8	9/16		9/16	5/8	9/16		3/8 — 1/2	9/16	8	13/32	.53
731	3/4 — 15/16	7/16 — 1/2	1/2	1/2	1/2 — 9/16	1/2	7/16 — 1/2		1/2	8	13/32	.53
731-A	3/4 — 7/8	7/16 — 9/16	1/2	1/2 — 9/16	1/2 — 5/8	1/2 — 9/16	7/16 — 9/16	1/2	1/2 — 9/16	8	13/32	.53
31	25/32 — 7/8	9/16		9/16	5/8	9/16	9/16	7/16 — 1/2	9/16	8	13/32	.53
731-B	13/16 — 7/8	1/2 — 9/16		9/16	9/16 — 5/8	9/16	1/2 — 9/16	1/2	9/16	8	13/32	.53
732-A	3/4 — 1	7/16 — 5/8	1/2	1/2 — 5/8	1/2 — 3/4	1/2	7/16		1/2	9	7/16	.63
32	25/32 — 31/32							7/16 — 9/16		9	7/16	.63
33-B	13/16 — 15/16	1/2			9/16	5/8	1/2 — 5/8		5/8	9	7/16	.63
732	13/16 — 1	1/2 — 5/8		5/8	9/16 — 3/4		1/2			9	7/16	.63
33-A	7/8 — 15/16	9/16		9/16	5/8	9/16 — 5/8	9/16 — 5/8	1/2	9/16 — 5/8	9	7/16	.63
33	7/8 — 31/32	9/16		9/16	5/8	9/16	9/16	1/2 — 9/16	9/16	9	7/16	.63
733	7/8 — 1	9/16 — 5/8		9/16 — 5/8	5/8 — 3/4	9/16	9/16	1/2	9/16	9	7/16	.63
33-C	15/16 — 1	5/8		5/8	3/4	5/8	5/8		5/8	9	7/16	.63
34	7/8 — 1 1/16	9/16		9/16	5/8	9/16	9/16	1/2 — 5/8	9/16 — 3/4	10	1/2	.95
734	7/8 — 1 1/8	9/16 — 3/4		9/16 — 3/4	5/8 — 7/8	9/16 — 3/4	9/16 — 3/4	1/2	9/16	10	1/2	.95
34-A	15/16 — 1 1/16					5/8	5/8	5/8	5/8 — 3/4	10	1/2	.95
35-A	15/16 — 1 1/8	3/4		3/4	7/8	5/8 — 3/4	5/8 — 3/4		5/8	10	1/2	.95
35	31/32 — 1 1/16							9/16 — 5/8	3/4	10	1/2	.95
735	1 — 1 1/8	5/8 — 3/4		5/8 — 3/4	3/4 — 7/8	3/4	3/4			10	1/2	.95
36	31/32 — 1 1/4							9/16 — 3/4	7/8	12	9/16	1.25
736	1 — 1 1/4	5/8		5/8	3/4			3/4	7/8	12	9/16	1.25
37	1 1/16 — 1 1/4							5/8 — 3/4	3/4 — 7/8	12	9/16	1.25
737	1 1/8 — 1 1/4	3/4		3/4	7/8	3/4	3/4	3/4	7/8	12	9/16	1.25
37-A	1 1/8 — 1 5/16	3/4 — 7/8		3/4 — 7/8	7/8 — 1	3/4 — 7/8	3/4 — 7/8			12	9/16	1.25
38	1 1/16 — 1 7/16							5/8 — 7/8	3/4 — 1	13 1/2	21/32	1.95
738	1 1/8 — 1 3/8	3/4		3/4	7/8	3/4	3/4			13 1/2	21/32	1.95
739	1 1/4 — 1 3/8							3/4	7/8	13 1/2	21/32	1.95
39	1 1/4 — 1 7/16							3/4 — 7/8	7/8 — 1	13 1/2	21/32	1.95
739-A	1 1/4 — 1 1/2	1	1	1 1/8	1	1	3/4		7/8	13 1/2	21/32	1.95
39-A	1 5/16 — 1 1/2	7/8 — 1	7/8 — 1	1 — 1 1/8	7/8 — 1	7/8 — 1				13 1/2	21/32	1.95
739-B	1 3/8 — 1 1/2	1	1	1 1/8	1	1				13 1/2	21/32	1.95
40	1 1/4 — 1 5/8							3/4 — 1	7/8 — 1 1/8	15 1/2	3/4	3.35
41	1 7/16 — 1 5/8							7/8 — 1	1 — 1 1/8	15 1/2	3/4	3.35
741	1 1/2 — 1 11/16	1 — 1 1/8		1 — 1 1/8	1 1/8 — 1 1/4	1 — 1 1/8	1 — 1 1/8			15 1/2	3/4	3.35

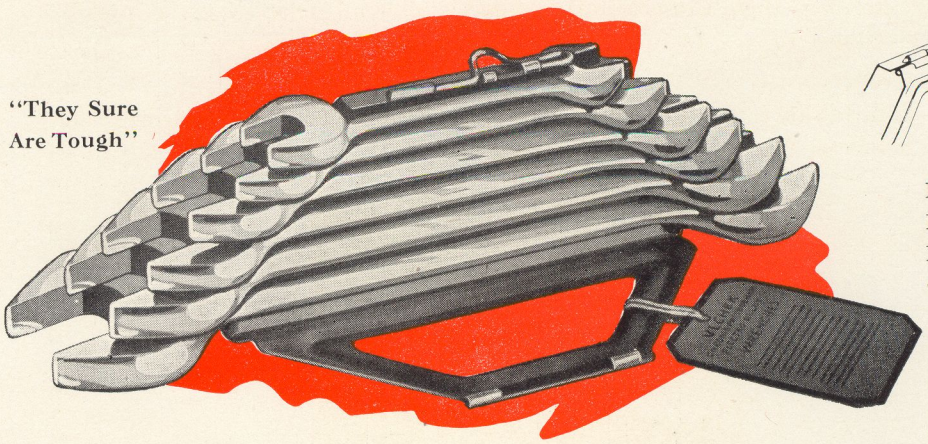
Numbers shown in RED are recommended. See Page No. 3.

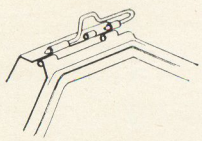
"Parabolic" Chrome-Molybdenum Steel Wrench Set

VLCHEK'S **"Parabolic"** Type Chrome-Molybdenum Steel Wrenches are the pioneer wrench using the pear-shaped or "parabolic" design. With this wrench, for the first time, the strength of the old round-head type of wrench was combined with the convenience of light wrenches for those "hard-to-get-at" places.

These wrenches are Drop Forged of Chrome-Molybdenum steel, carefully hardened and tempered and finished in durable Nickel Plate. Heads are polished bright and stamped as to openings and number.

"They Sure Are Tough"





Positive Lock on Metal Container

"PARABOLIC" WRENCHES

In a new, all-metal, side hinged, positive locking container

Every Wrench Opening a Different Size

Stamped with Number and Openings

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
1723	3/8—7/16	1/4 5/16	1/4 5/16—3/8	1/4 5/16—3/8	1/4 5/16—3/8	1/4 5/16—3/8	1/4 5/16	1/4 5/16—3/8	1/4 5/16—3/8	4 1/8	7/32
1725-B	1/2—9/16									5	1/4
1027	19/32—11/16									6	9/32
1729	5/8—3/4	3/8—7/16 9/16	7/16—1/2	7/16—1/2 9/16	7/16—1/2 5/8	7/16—1/2 9/16 5/8	3/8—7/16 9/16	7/16—1/2	7/16—1/2 9/16 5/8	7 1/8	5/16
1031	25/32—7/8									8	3/8
1033-B	13/16—15/16	1/2			9/16		1/2—5/8			9	13/32

Chrome-Molybdenum, the finest and toughest alloy steel, is electrically heat treated by the special Vlchek process to insure uniform hardness in every wrench.

No. 2152 Nickel Plated..... Suggested List Price, Per Set, **$3.95**

Approximate Weight, Per Set..... 2 lb. 10 oz.

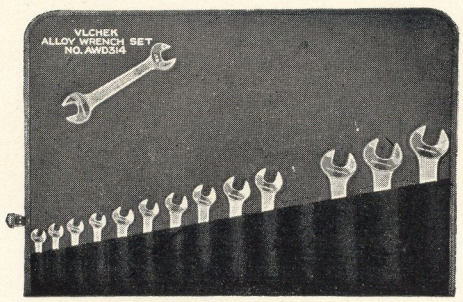
Vlchek "14" Piece

"Parabolic" Chrome-Molybdenum Steel Wrench Set

HERE is a fine set of Vlchek's Parabolic Type Chrome-Molybdenum Steel Alloy Wrenches. Composed of 14 popular size wrenches, it is a big seller to mechanics.

The extremely high value at so reasonable a retail price makes it possible for the mechanic to buy 14 fine wrenches at very little outlay.

The wrenches are the strongest and most durable and are of the *Parabolic* design. Thin heads, circular milled for added strength, beautifully finished; here is what has been needed for every user of wrenches.



Parabolic 15° Wrenches in Enamelled Drill Case

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
1721	5/16—3/8					1/4				3 3/4	5/32
1021	5/16—13/32									3 3/4	5/32
1723	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	4 1/8	7/32
1023	13/32—1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 1/8	7/32
1725-A	7/16—9/16	1/4—5/16	1/4—3/8	1/4—3/8	1/4—3/8	3/8	1/4—5/16		1/4—3/8	5	1/4
1025	1/2—19/32		5/16	5/16	5/16	5/16		1/4—5/16	5/16	5	1/4
1727	9/16—5/8	5/16—3/8	3/8—7/16	3/8—7/16	3/8—7/16	3/8—7/16	5/16—3/8		3/8—7/16	6	9/32
1027	19/32—11/16							5/16—3/8		6	9/32
1729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16		7/16—1/2	7 1/8	5/16
1029	11/16—25/32							3/8—7/16		7 1/8	5/16
1731	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	7/16—1/2		1/2	8	3/8
1033-A	7/8—15/16	9/16		9/16	5/8	9/16—5/8	9/16—5/8	1/2	9/16—5/8	9	13/32
1035	31/32—1 1/16							9/16—5/8	3/4	10	15/32
1735	1—1 1/8	5/8—3/4		5/8—3/4	3/4—7/8	3/4	3/4			10	15/32

Chrome-Molybdenum, the finest and toughest alloy steel, is electrically heat-treated by the special Vlchek process to insure uniform hardness in every wrench.

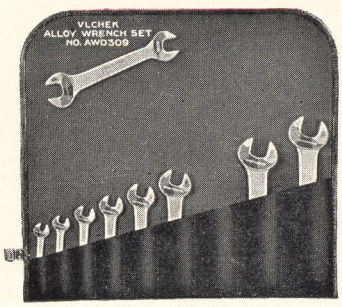
No. AWD314 Nickel Plated.....Suggested List Price, Per Set, **$13.00**

Approximate Weight, Per Set.....6 lbs. 10 oz.

Vlchek "9" Piece

"Parabolic" Chrome-Molybdenum Steel Wrench Set

THIS set, consisting of Nine Vlchek Parabolic Type Chrome Molybdenum Steel Wrenches, is made from the finest and toughest alloy steel electrically heat-treated by the special Vlchek process to insure uniform hardness in every wrench.



Every Wrench Opening a Different Size

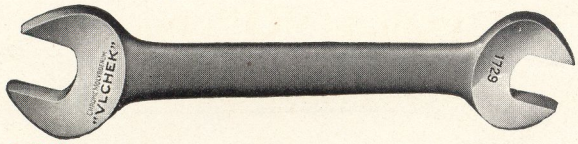
Parabolic 15° Wrenches in Enameled Drill Case

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
1021	5/16 — 13/32	1/4	1/4	1/4	1/4	1/4	1/4	1/4 — 3/8	1/4 — 3/8	3 3/4	5/32
1723	3/8 — 7/16	5/16	5/16 — 3/8	5/16 — 3/8	5/16 — 3/8	5/16 — 3/8	5/16			4 1/8	7/32
1725-B	1/2 — 9/16									5	1/4
1027	19/32 — 11/16							7/16 — 1/2	7/16 — 1/2	6	9/32
1729	5/8 — 3/4	3/8 — 7/16	7/16 — 1/2	7/16 — 1/2	7/16 — 1/2	7/16 — 1/2	3/8 — 7/16			7 1/8	5/16
1031	25/32 — 7/8	9/16		9/16	5/8	9/16	9/16			8	3/8
1033-B	13/16 — 15/16	1/2			9/16	5/8	1/2 — 5/8	9/16 — 5/8	5/8	9	13/32
1035	31/32 — 1 1/16								3/4	10	15/32
1735	1 — 1 1/8	5/8 — 3/4		5/8 — 3/4	3/4 — 7/8	3/4	3/4			10	15/32

No. AWD309 Nickel Plated..... Suggested List Price, Per Set, **$10.00**

Approximate Weight, Per Set..... 5 lbs. 6 oz.

Vlchek PARABOLIC
Chrome-Molybdenum Steel Wrenches



Vlchek's "Parabolic" Type Chrome Molybdenum Steel Wrenches are the pioneer wrench using the pear shaped or "parabolic" design. With this wrench, for the first time, the strength of the old round head type of wrench was combined with the convenience of light wrenches for those "hard-to-get-at" places.

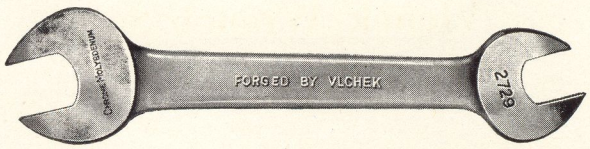
These wrenches are Drop Forged of Chrome Molybdenum steel, carefully hardened and tempered and finished in durable Nickel Plate. Heads are polished bright and stamped as to openings and number. **GUARANTEED not to SPREAD or BREAK**

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads	Suggested List Price
1721	5/16—3/8					1/4				3 3/4	5/32	**$0.42**
1021	5/16—13/32									3 3/4	5/32	**.42**
1722	5/16—7/16	1/4	1/4	1/4	1/4		1/4		1/4	4 1/8	7/32	.42
1022	5/16—1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 1/8	7/32	.42
1723	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	4 1/8	7/32	**.42**
1723-A	3/8—1/2		5/16	5/16	5/16	1/4—5/16		1/4	5/16	4 1/8	7/32	**.42**
1023	13/32—1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 1/8	7/32	**.42**
1724	3/8—9/16	5/16	3/8	3/8	3/8	1/4—3/8	5/16		3/8	5	1/4	.53
1024	13/32—19/32							5/16		5	1/4	.53
1725	7/16—1/2	1/4	1/4—5/16	1/4—5/16	1/4—5/16	5/16	1/4	1/4	1/4—5/16	5	1/4	**.53**
1725-A	7/16—9/16	1/4—5/16	1/4—3/8	1/4—3/8	1/4—3/8	3/8	1/4—5/16		1/4—3/8	5	1/4	**.53**
1725-B	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	5	1/4	**.53**
1025	1/2—19/32		5/16	5/16	5/16	5/16		1/4—5/16	5/16	5	1/4	**.53**
1726	1/2—5/8	3/8	5/16—7/16	5/16—7/16	5/16—7/16	5/16—7/16	3/8	1/4	5/16—7/16	6	9/32	.63
1026	1/2—11/16		5/16	5/16	5/16	5/16		1/4—3/8	5/16	6	9/32	.63
1727	9/16—5/8	5/16—3/8	3/8—7/16	3/8—7/16	3/8—7/16	3/8—7/16	5/16—3/8		3/8—7/16	6	9/32	**.63**
1027-C	9/16—11/16	5/16	3/8	3/8	3/8	3/8	5/16	3/8	3/8	6	9/32	.63
1027	19/32—11/16							5/16—3/8		6	9/32	**.63**
1728	9/16—3/4	5/16—7/16	3/8—1/2	3/8—1/2	3/8—1/2	3/8—1/2	5/16—7/16		3/8—1/2	7 1/8	5/16	.77
1028	19/32—25/32							5/16—7/16		7 1/8	5/16	.77
1729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16		7/16—1/2	7 1/8	5/16	**.77**
1028-S	5/8—25/32	3/8	7/16	7/16	7/16	7/16	3/8	7/16	7/16	7 1/8	5/16	.77
1029	11/16—25/32							3/8—7/16		7 1/8	5/16	**.77**
1730	5/8—13/16	3/8—1/2	7/16	7/16	7/16—9/16	7/16	3/8—1/2		7/16	8	3/8	1.00
1730-A	5/8—7/8	3/8—9/16	7/16	7/16—9/16	7/16—5/8	7/16—9/16	3/8—9/16	1/2	7/16—9/16	8	3/8	1.00
1030	11/16—7/8	9/16	9/16	9/16	5/8	9/16	9/16	3/8—1/2	9/16	8	3/8	1.00
1731	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	7/16—1/2		1/2	8	3/8	**1.00**
1731-A	3/4—7/8	7/16—9/16	1/2	1/2—9/16	1/2—5/8	1/2—9/16	7/16—9/16	1/2	1/2—9/16	8	3/8	**1.00**
1031	25/32—7/8	9/16		9/16	5/8	9/16	9/16	7/16—1/2	9/16	8	3/8	**1.00**
1731-B	13/16—7/8	1/2—9/16		9/16	9/16—5/8	9/16	1/2—9/16	1/2	9/16	8	3/8	**1.00**
1732-A	3/4—1	7/16—5/8	1/2	1/2—5/8	1/2—3/4	1/2	7/16		1/2	9	13/32	1.25
1032	25/32—31/32							7/16—9/16		9	13/32	1.25
1033-B	13/16—15/16	1/2			9/16	5/8	1/2—5/8		5/8	9	13/32	**1.25**
1732	13/16—1	1/2—5/8		5/8	9/16—3/4		1/2			9	13/32	1.25
1033-A	7/8—15/16	9/16			5/8	9/16—5/8	9/16—5/8	1/2	9/16—5/8	9	13/32	**1.25**
1033	7/8—31/32	9/16	9/16	9/16	5/8	9/16	9/16	1/2—9/16	9/16	9	13/32	**1.25**
1733	7/8—1	9/16—5/8	9/16—5/8	9/16—5/8	5/8—3/4	9/16	9/16	1/2	9/16	9	13/32	**1.25**
1033-C	15/16—1	5/8	5/8	5/8	3/4	5/8	5/8		5/8	9	13/32	1.25
1034	7/8—1 1/16	9/16	9/16	9/16	5/8	9/16	9/16	1/2—5/8	9/16—3/4	10	15/32	2.10
1734	7/8—1 1/8	9/16—3/4	9/16—3/4	5/8—7/8	9/16—3/4	9/16—3/4	9/16—3/4	1/2	9/16	10	15/32	2.10
1034-A	15/16—1 1/16				5/8	5/8	5/8	5/8	5/8—3/4	10	15/32	**2.10**
1035-A	15/16—1 1/8	3/4	3/4	7/8	5/8—3/4	5/8—3/4	5/8—3/4		5/8	10	15/32	**2.10**
1035	31/32—1 1/16							9/16—5/8	3/4	10	15/32	**2.10**
1735	1—1 1/8	5/8—3/4	5/8—3/4	3/4—7/8	3/4	3/4	3/4			10	15/32	**2.10**
1036	31/32—1 1/4							9/16—3/4	7/8	12	17/32	3.00
1736	1—1 1/4	5/8	5/8	3/4				3/4	7/8	12	17/32	3.00
1037	1 1/16—1 1/4							5/8—3/4	3/4—7/8	12	17/32	**3.00**
1737	1 1/8—1 1/4	3/4	3/4	7/8	3/4	3/4	3/4	3/4	7/8	12	17/32	3.00
1037-A	1 1/8—1 5/16	3/4—7/8	3/4—7/8	7/8—1	3/4—7/8	3/4—7/8	3/4—7/8			12	17/32	**3.00**

Numbers shown in RED are recommended. See Page No. 3.

Vlchek NEW PARATHIN Wrenches

CHROME-MOLYBDENUM STEEL—Chromium Plated



Vlchek's New "Parathin" wrenches are presented as the finest we have ever produced. They are generous in size, with thin heads, deep milled openings, and the Vlchek pioneered parabolic design still further refined to furnish a wrench with the utmost in appearance and accessibility.

Several extra operations are employed to insure the finest appearance—true straightness in the rough forgings before any finishing operations are performed. In addition, all forgings are carefully annealed at two stages in manufacture, before the usual heat treatment, in order to insure the utmost in uniformity and reliability.

Wrenches are Drop Forged of Chrome Molybdenum steel, carefully hardened and tempered and beautifully finished all over. The highest grade of Chromium Plating is applied over Nickel and faces are polished to a mirror-like lustre.

GUARANTEED not to SPREAD or BREAK

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads	Suggested List Price
2721	5/16—3/8					1/4				4 1/4	13/64	$0.75
2021	5/16—13/32									4 1/4	13/64	.75
2722	5/16—7/16	1/4	1/4	1/4	1/4		1/4		1/4	4 1/4	13/64	.75
2723	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	4 1/4	13/64	.75
2022	5/16—1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 3/4	7/32	.90
2723-A	3/8—1/2		5/16	5/16	5/16	1/4—5/16		1/4	5/16	4 3/4	7/32	.90
2023	13/32—1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 3/4	7/32	.90
2024	13/32—19/32							5/16		5 1/2	1/4	1.10
2725	7/16—1/2	1/4	1/4—5/16	1/4—5/16	1/4—5/16	5/16	1/4	1/4	1/4—5/16	5 1/2	1/4	1.10
2725-A	7/16—9/16	1/4—5/16	1/4—3/8	1/4—3/8	1/4—3/8	3/8	1/4—5/16		1/4—3/8	5 1/2	1/4	1.10
2725-B	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	5 1/2	1/4	1.10
2025	1/2—19/32		5/16	5/16	5/16	5/16		1/4—5/16	5/16	5 1/2	1/4	1.10
2726	1/2—5/8	3/8	5/16—7/16	5/16—7/16	5/16—7/16	5/16—7/16	3/8	1/4	5/16—7/16	6 1/2	9/32	1.30
2026	1/2—11/16		5/16	5/16	5/16	5/16		1/4—3/8	5/16	6 1/2	9/32	1.30
2727	9/16—5/8	5/16—3/8	3/8—7/16	3/8—7/16	3/8—7/16	3/8—7/16	5/16—3/8		3/8—7/16	6 1/2	9/32	1.30
2027-C	9/16—11/16	5/16	3/8	3/8	3/8	3/8	5/16	3/8	3/8	6 1/2	9/32	1.30
2027	19/32—11/16							5/16—3/8		6 1/2	9/32	1.30
2728	9/16—3/4	5/16—7/16	3/8—1/2	3/8—1/2	3/8—1/2	3/8—1/2	5/16—7/16		3/8—1/2	7 3/4	5/16	1.60
2028	19/32—25/32							5/16—7/16		7 3/4	5/16	1.60
2729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16		7/16—1/2	7 3/4	5/16	1.60
2028-S	5/8—25/32	3/8	7/16	7/16	7/16	7/16	3/8	7/16	7/16	7 3/4	5/16	1.60
2029	11/16—25/32							3/8—7/16		7 3/4	5/16	1.60
2030	11/16—7/8	9/16		9/16	5/8	9/16	9/16	3/8—1/2	9/16	7 3/4	5/16	1.60
2731	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	7/16—1/2		1/2	9 1/4	3/8	2.00
2731-A	3/4—7/8	7/16—9/16	1/2	1/2—9/16	1/2—5/8	1/2—9/16	7/16—9/16	1/2	1/2—9/16	9 1/4	3/8	2.00
2031	25/32—7/8	9/16		9/16	5/8	9/16	9/16	7/16—1/2	9/16	9 1/4	3/8	2.00
2731-B	13/16—7/8	1/2—9/16		9/16	9/16—5/8	9/16	1/2—9/16	1/2	9/16	9 1/4	3/8	2.00
2032	25/32—31/32							7/16—9/16		9 1/4	3/8	2.00
2033-A	7/8—15/16	5/16		9/16	5/8	9/16—5/8	9/16—5/8	1/2	9/16—5/8	9 1/4	3/8	2.00
2033	7/8—31/32	9/16		9/16	5/8	9/16	9/16	1/2—9/16	9/16	9 1/4	3/8	2.00
2033-B	13/16—15/16	1/2			9/16—3/4	5/8	1/2—5/8		5/8	9 1/4	3/8	2.00
2732	13/16—1	1/2—5/8		5/8	9/16—3/4		1/2			9 1/4	3/8	2.00
2733	7/8—1	9/16—5/8		9/16—5/8	5/8—3/4	9/16	9/16	1/2	9/16	10 3/4	7/16	2.80
2034	7/8—1 1/16	9/16		9/16	5/8	9/16	9/16	1/2—5/8	9/16—3/4	10 3/4	7/16	2.80
2734	7/8—1 1/8	9/16—3/4		9/16—3/4	5/8—7/8	9/16—3/4	9/16—3/4	1/2	9/16	10 3/4	7/16	2.80
2033-C	15/16—1	5/8		5/8	3/4	5/8	5/8		5/8	10 3/4	7/16	2.80
2034-A	15/16—1 1/16					5/8	5/8	5/8	5/8—3/4	10 3/4	7/16	2.80
2035-A	15/16—1 1/8	3/4		3/4	7/8	5/8—3/4	5/8—3/4		5/8	10 3/4	7/16	2.80
2035	31/32—1 1/16							9/16—5/8	3/4	10 3/4	7/16	2.80
2036	31/32—1 1/4							9/16—3/4	7/8	12 1/4	1/2	4.00
2735	1—1 1/8	5/8—3/4		5/8—3/4	3/4—7/8	3/4	3/4			12 1/4	1/2	4.00
2736	1—1 1/4	5/8		5/8	3/4			3/4	7/8	12 1/4	1/2	4.00
2037	1 1/16—1 1/4							5/8—3/4	3/4—7/8	12 1/4	1/2	4.00
2737	1 1/8—1 1/4	3/4		3/4	7/8	3/4	3/4	3/4	7/8	12 1/4	1/2	4.00
2037-A	1 1/8—1 5/16	3/4—7/8		3/4—7/8	7/8—1	3/4—7/8	3/4—7/8			12 1/4	1/2	4.00

Numbers shown in RED are recommended. See Page No. 3.

Vlchek Wrench Sets

In Rolls

The Sets shown on the reverse side of this page are made up of VLCHEK Chrome-Molybdenum PARATHIN WRENCHES

WRENCHES:

These wrenches are the very finest we have ever produced. They are made of Chrome-Molybdenum alloy steel and are carefully heat-treated, hardened and tempered.

In producing these wrenches, a number of special operations are employed to insure the very highest properties to be found in any wrench. For example, the wrench forgings are normalized at two extra steps in production to remove all forging and machinery strains; they are subjected to two extra straightening operations, including an extra forging operation to refinish the bar for sharp, clean lettering and satin smoothness.

All PARATHIN Wrenches are Chromium Plated over copper and nickel plate and heads are polished to a mirror-like lustre; this finish will remain bright and lustrous long after other finishes have disappeared.

SIZES:

The sizes in each set have been carefully selected to be the most practical for general use. Note the table showing the nut, bolt and cap screw sizes accommodated. In particular we wish to call attention to the full provision we have made for the NEW AMERICAN STANDARDS which are superseding the older USS, SAE and cap screw standards.

CASE:

Roll Cases are made of durable Enameled Drill, hand sewn, with sturdy strap and buckle.

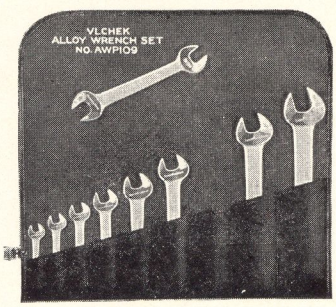
Refer to other side for illustrations, sizes and prices.

No. AWP109 "9" Piece Wrench Set in Roll

Parathin Wrenches

Wrench No.	Openings Milled	Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD				Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
			Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough and Semi-Finished Square and Hex. Reg. Bolt Heads					
2021	5/16—13/32					1/4—5/16		1/4	5/16	4 1/4	13/64
2723-A	3/8—1/2					3/8			1/4—3/8	4 3/4	7/32
2725-A	7/16—9/16	1/4—5/16	1/4—3/8	5/16 3/8	5/16 1/4—3/8		1/4—5/16	5/16—3/8		5 1/2	1/4
2027	19/32—11/16								7/16—1/2	6 1/2	9/32
2729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2 9/16	7/16—1/2 5/8	7/16—1/2 9/16	3/8—7/16 9/16	7/16—1/2	9/16	7 3/4	5/16
2031	25/32—7/8	9/16			9/16	5/8	1/2—5/8		5/8	9 1/4	3/8
2033-B	13/16—15/16	1/2						9/16—5/8	3/4	9 1/4	3/8
2035	31/32—1 1/16						3/4			10 3/4	7/16
2735	1 —1 1/8	5/8—3/4		5/8—3/4	3/4—7/8	3/4				12 1/4	1/2

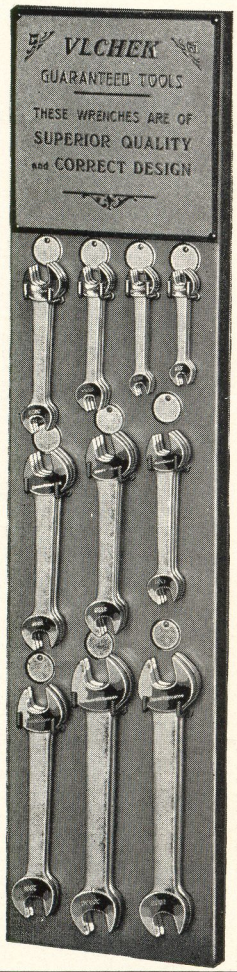
No. AWP109 Chromium Plated.....Suggested List Price, Per Set, **$17.35**
Approximate Weight, Per Set.....5 lbs. 6 oz.



No. AWP106 "6" Piece Wrench Set in Roll

Wrench No.	Openings Milled	Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD				Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
			Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough and Semi-Finished Square and Hex. Bolt Heads					
2723-A	3/8—1/2					1/4—5/16		1/4	5/16	4 3/4	7/32
2725-A	7/16—9/16	1/4—5/16	1/4—3/8	5/16 1/4—3/8	5/16 1/4—3/8	3/8	1/4—5/16	5/16—3/8	1/4—3/8	5 1/2	1/4
2027	19/32—11/16									6 1/2	9/32
2729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2 9/16	7/16—1/2 5/8	3/8—7/16		7/16—1/2	7 3/4	5/16
2033-B	13/16—15/16	1/2					1/2—5/8		9/16 5/8	9 1/4	3/8
2733	7/8—1	9/16—5/8		9/16—5/8	5/8—3/4	9/16	9/16	1/2		10 3/4	7/16

No. AWP106 Chromium Plated.....Suggested List Price, Per Set, **$10.40**
Approximate Weight, Per Set.....3 lbs.
Refer to other side for description.



Popular Display Board Assortments

THE Display Board shown in the accompanying photograph is rigidly constructed of sheet metal, light in weight and beautifully finished in the National Association Standard Yellow Lacquer.

At the top there is attached an attractive, embossed nameplate upon which we can insert the Distributor's name if desired.

The Board is designed to display any one of the seven (7) popular Assortments listed. The screw hooks and nuts for suspension of Wrenches are furnished already attached to each Board.

If Assortments other than we list are desired, we will be pleased to rearrange hooks to meet with individual needs. Please communicate with us if you have any suggestions of this kind.

Assortment No. BP1

Quantity	Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. & Finished Square & Hex. Reg. & Jam Nuts	Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	Finished Square & Hex. Bolt Heads	USS Nuts & Bolt Heads	SAE Nuts, Plain, Jam & Castellated	Extreme Length	Thickness of Heads	Suggested List Price
3	2721	5/16—3/8					1/4				4 1/4	13/64	$0.75
3	2023	13/32—1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 3/4	7/32	.90
3	2725-A	7/16—9/16	1/4—5/16	1/4—3/8	1/4—3/8	1/4—3/8	3/8	1/4—5/16		1/4—3/8	5 1/2	1/4	1.10
3	2727	9/16—5/8	5/16—3/8	3/8—7/16	3/8—7/16	3/8—7/16	3/8—7/16	5/16—3/8		3/8—7/16	6 1/2	9/32	1.30
3	2027	19/32—11/16							5/16—3/8		6 1/2	9/32	1.30
3	2729	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16		7/16—1/2	7 3/4	5/16	1.60
3	2029	11/16—25/32							3/8—7/16		7 3/4	5/16	1.60
2	2033-B	13/16—15/16	1/2			9/16	5/8	1/2—5/8		5/8	9 1/4	3/8	2.00
2	2733	7/8—1	9/16—5/8		9/16—5/8	5/8—3/4	9/16	9/16	1/2	9/16	10 3/4	7/16	2.80
2	2035	31/32—1 1/16							9/16—5/8	3/4	10 3/4	7/16	2.80

27 Wrenches, Complete Assortment **No. BP1** **$40.85**

Display Board FREE with above Assortment of Wrenches.
Size of Board, 8½ inches wide x 36 inches long. Gross Weight, Assortment, Including Board .....16 lbs.

Popular Display Board Assortments

Assortment No. BPY1

Quantity	Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. & Finished Square & Hex. Reg. & Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square & Hex. Bolt Heads	USS Nuts & Bolt Heads	SAE Nuts, Plain, Jam & Castellated	Extreme Length	Thickness of Heads	Suggested List Price
3	**2721**	5/16—3/8					1/4				4 1/4	13/64	**$0.75**
3	**2023**	13/32—1/2		5/16	5/16	5/16	5/16		1/4	5/16	4 3/4	7/32	**.90**
3	**2725-A**	7/16—9/16	1/4—5/16	1/4—3/8	1/4—3/8	1/4—3/8	3/8	1/4—5/16		1/4—3/8	5 1/2	1/4	**1.10**
3	**2727**	9/16—5/8	5/16—3/8	3/8—7/16	3/8—7/16	3/8—7/16	3/8—7/16	5/16—3/8		3/8—7/16	6 1/2	9/32	**1.30**
3	**2027**	19/32—11/16							5/16—3/8		6 1/2	9/32	**1.30**
2	**2731**	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	7/16—1/2		1/2	9 1/4	3/8	**2.00**
2	**2733**	7/8—1	9/16—5/8		9/16—5/8	5/8—3/4	9/16		1/2	9/16	10 3/4	7/16	**2.80**
2	**2034-A**	15/16—1 1/16					5/8	5/8		5/8—3/4	10 3/4	7/16	**2.80**
3	**1090**	1/2—1/2		5/16	5/16	5/16	5/16		1/4	5/16	8	11/64	**.98**
3	**1091**	9/16—9/16	5/16	3/8	3/8	3/8	3/8	5/16		3/8	8	3/16	**1.10**
3	**1092**	5/8—5/8	3/8	7/16	7/16	7/16	7/16	3/8		7/16	8	13/64	**1.14**
3	**1093**	11/16—11/16							3/8		8	13/64	**1.19**

33 Wrenches, Complete Assortment, **No. BPY1** **$44.48**

Display Board furnished FREE with above Assortment of Wrenches.

Size of Board, 8½ inches wide x 36 inches long. Gross Weight, Assortment Complete, including Board, 16 lbs.

Assortment No. BD3

Quantity	Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. & Finished Square & Hex. Reg. & Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square & Hex. Bolt Heads	USS Nuts & Bolt Heads	SAE Nuts, Plain, Jam & Castellated	Extreme Length	Thickness of Heads	Suggested List Price
6	**1021**	5/16—13/32									3 3/4	5/32	**$0.42**
6	**1723**	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	4 1/8	7/32	**.42**
6	**1725-A**	7/16—9/16	1/4—5/16	1/4—3/8	1/4—3/8	1/4—3/8	3/8	1/4—5/16		1/4—3/8	5	1/4	**.53**
6	**1725-B**	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	5	1/4	**.53**
6	**1025**	1/2—19/32		5/16	5/16	5/16	5/16		1/4—5/16	5/16	5	1/4	**.53**
6	**1027**	19/32—11/16							5/16—3/8		6	9/32	**.63**
6	**1729**	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16		7/16—1/2	7 1/8	5/16	**.77**
6	**1029**	11/16—25/32							3/8—7/16		7 1/8	5/16	**.77**
4	**1731**	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	7/16—1/2		1/2	8	3/8	**1.00**
4	**1033-A**	7/8—15/16	9/16		9/16—5/8	5/8—3/4	9/16—5/8	9/16—5/8	1/2	9/16—5/8	9	13/32	**1.25**
4	**1733**	7/8—1	9/16—5/8				9/16	9/16	1/2		9	13/32	**1.25**
4	**1035**	31/32—1 1/16							9/16—5/8	3/4	10	15/32	**2.10**

64 Wrenches, Complete, Assortment No. **BD3** **$50.00**

Display Board furnished FREE with above Assortment of Wrenches.

In order to keep the weight of the Display within reasonable limits, the board has been designed to hold thirty-two (32) Wrenches, or one-half of the above Assortment.

Size of Board, 8½ inches wide x 36 inches long. Weight of Board, 6 lbs. Wrenches, 30 lbs.

Gross Weight, Assortment Complete, 36 lbs.

For description of Display Board, see page 12.

Popular Display Board Assortments

Assortment No. BDT3

Quantity	Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin & Finished Square & Hex. Reg. & Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square & Hex. Bolt Heads	USS Nuts & Bolt Heads	SAE Nuts, Plain, Jam & Castellated	Extreme Length	Thickness of Heads	Suggested List Price
6	**1021**	5/16—13/32	1/4	1/4	1/4	1/4	1/4	1/4		1/4	3 3/4	5/32	**$0.42**
6	**1723**	3/8—7/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	4 1/8	7/32	**.42**
6	**1725-B**	1/2—9/16							5/16—3/8		5	1/4	**.53**
6	**1027**	19/32—11/16									6	9/32	**.63**
6	**1729**	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16		7/16—1/2	7 1/8	5/16	**.77**
4	**1031**	25/32—7/8	9/16		9/16	5/8	9/16	9/16	7/16—1/2	9/16	8	3/8	**1.00**
4	**1033-B**	13/16—15/16	1/2			9/16	5/8	1/2—5/8		5/8	9	13/32	**1.25**
4	**1035**	31/32—1 1/16							9/16—5/8	3/4	10	15/32	**2.10**
6	**90**	7/16—1/2	1/4	1/4—5/16	1/4—5/16	1/4—5/16	5/16	1/4	1/4	1/4—5/16	8 1/8	5/32	**.60**
6	**92**	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	8 1/8	3/16	**.65**
6	**93**	5/8—11/16	3/8	7/16	7/16		7/16		3/8	7/16	8 1/8	13/64	**.75**
6	**94**	3/4—7/8	7/16—9/16	1/2	1/2—9/16	1/2—5/8	1/2—9/16	7/16—9/16	1/2	1/2—9/16	8 1/8	13/64	**.85**

66 Wrenches, Complete, Assortment **No. BDT3** **$51.12**

Display Board furnished FREE with above Assortment of Wrenches.

In order to keep the weight of the Display within reasonable limits, the board has been designed to hold thirty-three (33) Wrenches, or one-half of the above Assortment.

Size of Board, 8½ inches wide x 36 inches long. Weight of Board, 6 lbs. Wrenches, 27 lbs.

Gross Weight, Assortment, Complete, 33 lbs.

Assortment No. BTY3

Quantity	Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. & Finished Square & Hex. Reg. & Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square & Hex. Bolt Heads	USS Nuts & Bolt Heads	SAE Nuts, Plain, Jam & Castellated	Extreme Length	Thickness of Heads	Suggested List Price
6	**1090**	1/2—1/2		5/16	5/16	5/16	5/16		1/4	5/16	8	11/64	**$0.98**
6	**1091**	9/16—9/16	5/16	3/8	3/8	3/8	3/8	5/16		3/8	8	3/16	**1.10**
6	**1092**	5/8—5/8	3/8	7/16	7/16	7/16	7/16	3/8		7/16	8	13/64	**1.14**
6	**1093**	11/16—11/16							3/8		8	13/64	**1.19**
6	**90**	7/16—1/2	1/4	1/4—5/16	1/4—5/16	1/4—5/16	5/16	1/4	1/4	1/4—5/16	8 1/8	5/32	**.60**
6	**92**	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	8 1/8	3/16	**.65**
6	**93**	5/8—11/16	3/8	7/16	7/16	7/16	7/16	3/8	3/8	7/16	8 1/8	13/64	**.75**
6	**94**	3/4—7/8	7/16—9/16	1/2	1/2—9/16	1/2—5/8	1/2—9/16	7/16—9/16	1/2	1/2—9/16	8 1/8	13/64	**.85**

48 Wrenches, Complete, Assortment **No. BTY3** **$43.56**

Display Board furnished FREE with above Assortment of Wrenches.

In order to keep the weight of the Display within reasonable limits, the board has been designed to hold twenty-four (24) Wrenches, or one-half of the above Assortment.

Size of Board, 8½ inches wide x 36 inches long. Weight of Board, 6 lbs. Wrenches, 15 lbs.

Gross Weight, Assortment, Complete, 21 lbs.

For description of Display Board, see page 12.

Popular Display Board Assortments

Assortment No. BDL5

Quantity	Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin & Finished Square & Hex. Reg. & Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square & Hex. Bolt Heads	USS Nuts & Bolt Heads	SAE Nuts, Plain, Jam & Castellated	Extreme Length	Thickness of Heads	Suggested List Price
9	**21**	5/16—13/32	1/4	1/4	1/4	1/4	1/4	1/4		1/4	3 3/4	3/16	**$0.27**
9	**723**	3/8—7/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	4 1/8	1/4	**.27**
9	**725-B**	1/2—9/16							5/16—3/8		5	9/32	**.30**
9	**27**	19/32—11/16									6	5/16	**.36**
9	**729**	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16	7/16—1/2	7/16—1/2	7 1/8	11/32	**.42**
6	**31**	25/32—7/8	9/16		9/16	5/8	9/16	9/16		9/16	8	13/32	**.53**
6	**33-B**	13/16—15/16	1/2			9/16	5/8	1/2—5/8		5/8	9	7/16	**.63**
6	**35**	31/32—1 1/16						9/16—5/8		3/4	10	1/2	**.95**
6	**75-B**	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	6 1/4	1/4	**.35**
6	**77-B**	1/2—9/16	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	7 1/8	9/32	**.42**
6	**79**	5/8—11/16	3/8	7/16	7/16	7/16	7/16	3/8	3/8	7/16	8 1/4	5/16	**.55**
6	**81-B**	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	7/16—1/2		1/2	9 1/4	3/8	**.60**

87 Wrenches, Complete, Assortment **No. BDL5** **$38.76**

Display Board furnished FREE with above Assortment of Wrenches.

In order to keep the weight of the Display within reasonable limits, the board has been designed to hold twenty-nine (29) Wrenches, or one-third of the above Assortment.

Size of Board, 8½ inches wide x 36 inches long. Weight of Board, 6 lbs. Wrenches, 40 lbs.

Gross Weight, Assortment, Complete, 46 lbs.

Assortment No. BD5

Quantity	Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. & Finished Square & Hex. Reg. & Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square & Hex. Bolt Heads	USS Nuts & Bolt Heads	SAE Nuts, Plain, Jam & Castellated	Extreme Length	Thickness of Heads	Suggested List Price
9	**21**	5/16—13/32									3 3/4	3/16	**$0.27**
9	**723**	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	4 1/8	1/4	**.27**
9	**725-A**	7/16—9/16	1/4—5/16	1/4—3/8	1/4—3/8	1/4—3/8	3/8	1/4—5/16		1/4—3/8	5	9/32	**.30**
9	**725-B**	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16		5/16—3/8	5	9/32	**.30**
9	**25**	1/2—19/32		5/16	5/16	5/16	5/16		1/4—5/16	5/16	5	9/32	**.30**
9	**27**	19/32—11/16							5/16—3/8		6	5/16	**.36**
9	**729**	5/8—3/4	3/8—7/16	7/16—1/2	7/16—1/2	7/16—1/2	7/16—1/2	3/8—7/16	3/8—7/16	7/16—1/2	7 1/8	11/32	**.42**
9	**29**	11/16—25/32									7 1/8	11/32	**.42**
6	**731**	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	7/16—1/2		1/2	8	13/32	**.53**
6	**33-A**	7/8—15/16	9/16		9/16	5/8	9/16—5/8	9/16—5/8	1/2	9/16—5/8	9	7/16	**.63**
6	**733**	7/8—1	9/16		9/16—5/8	5/8—3/4	9/16	9/16	1/2		9	7/16	**.63**
6	**35**	31/32—1 1/16	9/16—5/8						9/16—5/8	3/4	10	1/2	**.95**

96 Wrenches, Complete, Assortment **No. BD5** **$40.20**

Display Board furnished FREE with above Assortment of Wrenches.

In order to keep the weight of the Display within reasonable limits, the board has been designed to hold thirty-two (32) Wrenches, or one-third of the above Assortment.

Size of Board, 8½ inches wide x 36 inches long. Weight of Board, 6 lbs. Wrenches, 43 lbs.

Gross Weight, Assortment, Complete, 49 lbs.

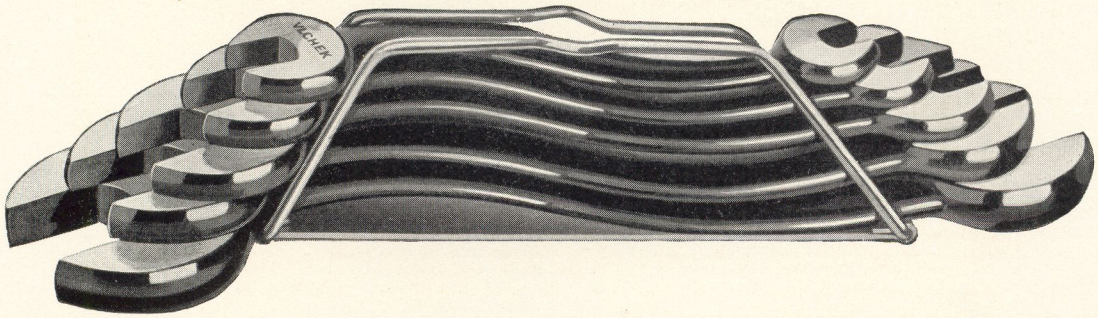
For description of Display Board, see page 12.

STAR "S" Wrench Set

Double End **Drop Forged**

THE Vlchek Star "S" Wrench Set for Automotive, Agricultural, Carriage and Wagon work, consists of five (5) Drop Forged Double End Service Wrenches; has ten (10) different milled openings of the most popular sizes.

Each Wrench is properly hardened and assembled in a permanent metal container.



Wrench No.	Openings Milled	AMERICAN STANDARD						USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads
		Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	Hexagon Light Nuts	Hexagon Castellated Nuts	Hexagon Head Cap Screws	Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	Finished Square and Hex. Bolt Heads				
75-B	3/8—7/16	1/4	1/4	1/4	1/4	1/4	1/4		1/4	6 1/4	1/4
77-B	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	7 1/8	9/32
79	5/8—11/16	3/8	7/16	7/16	7/16	7/16		3/8	7/16	8 1/4	5/16
81-B	3/4—13/16	7/16—1/2	1/2	1/2	1/2—9/16	1/2	3/8	7/16—1/2	1/2	9 1/4	3/8
83-B	7/8—1	9/16—5/8		9/16—5/8	5/8—3/4	9/16	9/16	1/2	9/16	10 3/8	7/16

No. 2087 Unfinished Tempered.....Suggested List Price, Per Set, **$1.55**

No. 2088 Ebony All Over.....Suggested List Price, Per Set, **1.70**

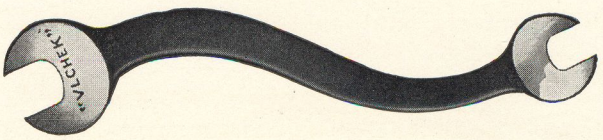
No. 2089 Semi-Finished.....Suggested List Price, Per Set, **2.00**

Approximate Weight, Per Set.....2 lbs. 15 oz.

Light Service Wrenches

22½° Angle — Double Head

Long and Light



Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads	Suggested List Price
75-C	1/4 — 5/16	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	6 1/4	1/4	$0.35
75-B	3/8 — 7/16		5/16	5/16	5/16	1/4 — 5/16		1/4	5/16	6 1/4	1/4	**.35**
75-A	3/8 — 1/2		5/16	5/16	5/16	5/16		1/4	5/16	6 1/4	1/4	**.35**
75	13/32 — 1/2		5/16	5/16	5/16			1/4	5/16	6 1/4	1/4	**.35**
77-S	7/16 — 1/2	1/4	1/4 — 5/16	1/4 — 5/16	1/4 — 5/16	5/16	1/4	1/4	1/4 — 5/16	7 1/8	9/32	.42
77-C	7/16 — 9/16	1/4 — 5/16	1/4 — 3/8	1/4 — 3/8	1/4 — 3/8	3/8	1/4 — 5/16		1/4 — 3/8	7 1/8	9/32	**.42**
77-B	1/2 — 9/16	5/16	5/16 — 3/8	5/16 — 3/8	5/16 — 3/8	5/16 — 3/8	5/16	1/4	5/16 — 3/8	7 1/8	9/32	**.42**
77-A	1/2 — 19/32		5/16	5/16	5/16	5/16		1/4 — 5/16	5/16	7 1/8	9/32	**.42**
77	1/2 — 5/8	3/8	5/16 — 7/16	5/16 — 7/16	5/16 — 7/16	5/16 — 7/16	3/8	1/4	5/16 — 7/16	7 1/8	9/32	**.42**
79-B	9/16 — 19/32	5/16	3/8	3/8	3/8	3/8	5/16	5/16	3/8	8 1/4	5/16	.55
79-S	9/16 — 5/8	5/16 — 3/8	3/8 — 7/16	3/8 — 7/16	3/8 — 7/16	3/8 — 7/16	5/16 — 3/8		3/8 — 7/16	8 1/4	5/16	**.55**
79-A	9/16 — 11/16	5/16	3/8	3/8	3/8	3/8	5/16	3/8	3/8	8 1/4	5/16	**.55**
79-E	9/16 — 3/4	5/16 — 7/16	3/8 — 1/2	3/8 — 1/2	3/8 — 1/2	3/8 — 1/2	5/16 — 7/16		3/8 — 1/2	8 1/4	5/16	.55
79-D	19/32 — 11/16							5/16 — 3/8		8 1/4	5/16	.55
79	5/8 — 11/16	3/8	7/16	7/16	7/16	7/16	3/8	3/8	7/16	8 1/4	5/16	**.55**
79-C	5/8 — 3/4	3/8 — 7/16	7/16 — 1/2	7/16 — 1/2	7/16 — 1/2	7/16 — 1/2	3/8 — 7/16		7/16 — 1/2	8 1/4	5/16	**.55**
81-E	5/8 — 7/8	3/8 — 9/16	7/16	7/16 — 9/16	7/16 — 5/8	7/16 — 9/16	3/8 — 9/16	1/2	7/16 — 9/16	9 1/4	3/8	.60
81-C	11/16 — 3/4	7/16	1/2	1/2	1/2	1/2	7/16	3/8	1/2	9 1/4	3/8	.60
81-B	3/4 — 13/16	7/16 — 1/2	1/2	1/2	1/2 — 9/16	1/2	7/16 — 1/2		1/2	9 1/4	3/8	**.60**
81-A	3/4 — 7/8	7/16 — 9/16	1/2	1/2 — 9/16	1/2 — 5/8	1/2 — 9/16	7/16 — 9/16	1/2	1/2 — 9/16	9 1/4	3/8	.60
81-D	25/32 — 7/8	9/16		9/16	5/8	9/16	9/16	7/16 — 1/2	9/16	9 1/4	3/8	**.60**
83-D	7/8 — 15/16	9/16		9/16	5/8	9/16 — 5/8	9/16 — 5/8	1/2	9/16 — 5/8	10 3/8	7/16	.80
83-B	7/8 — 1	9/16 — 5/8		9/16 — 5/8	5/8 — 3/4	9/16	9/16	1/2	9/16	10 3/8	7/16	**.80**
83-C	7/8 — 1 1/16	9/16		9/16	5/8	9/16	9/16	1/2 — 5/8	9/16 — 3/4	10 3/8	7/16	.80
83-A	15/16 — 1	5/8		5/8	3/4	5/8	5/8		5/8	10 3/8	7/16	.80
83-E	15/16 — 1 1/16					5/8	5/8	5/8	5/8 — 3/4	10 3/8	7/16	**.80**
85	1 — 1 1/8	5/8 — 3/4		5/8 — 3/4	3/4 — 7/8	3/4	3/4		7/8	12	1/2	**1.35**
85-A	1 — 1 1/4	5/8		5/8	3/4			3/4		12	1/2	1.35
85-C	1 1/16 — 1 1/4							5/8 — 3/4	3/4 — 7/8	12	1/2	**1.35**
85-B	1 1/8 — 1 1/4	3/4		3/4	7/8	3/4	3/4	3/4	7/8	12	1/2	1.35
85-D	1 1/8 — 1 5/16	3/4 — 7/8		3/4 — 7/8	7/8 — 1	3/4 — 7/8	3/4 — 7/8			12	1/2	**1.35**

Numbers shown in RED are recommended. See Page No. 3.

Packed Half Dozen in a Box

Vlchek "Parabolic" Chrome-Molybdenum Tappet Wrenches

VLCHEK Chrome-Molybdenum Tappet Wrenches are electrically heat treated to insure uniform hardness. They are exceptionally strong and yet of thin design for tappet adjustment service. These wrenches can be supplied in three finishes as specified below. Dependable, very tough and accurate as to milled openings.

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. & Finished Square & Hex. Reg. & Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough & Semi-Finished Square & Hex. Reg. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads	SUGGESTED LIST PRICE: Ebony All Over	SUGGESTED LIST PRICE: Semi-Finished	SUGGESTED LIST PRICE: Nickel Plated
90	7/16—1/2	1/4	1/4—5/16	1/4—5/16	1/4—5/16	5/16	1/4	1/4	1/4—5/16	8 1/8	5/32	**$0.40**	**$0.50**	**$0.60**
92	1/2—9/16	5/16	5/16—3/8	5/16—3/8	5/16—3/8	5/16—3/8	5/16	1/4	5/16—3/8	8 1/8	3/16	**.44**	**.54**	**.65**
93	5/8—11/16	3/8	7/16	7/16	7/16	7/16	3/8	3/8	7/16	8 1/8	13/64	**.47**	**.57**	**.75**
94	3/4—7/8	7/16—9/16	1/2	1/2—9/16	1/2—5/8	1/2—9/16	7/16—9/16	1/2	1/2—9/16	8 1/8	13/64	**.58**	**.72**	**.85**
96	15/16—1	5/8		5/8	3/4	5/8	5/8		5/8	9 1/4	7/32	**.72**	**.85**	**1.00**

"4" PIECE TAPPET SET

IN METAL CONTAINER

Set consists of two (2) each of the following Wrenches: Nos. 92 and 93.

For specifications of Wrenches, see above chart.

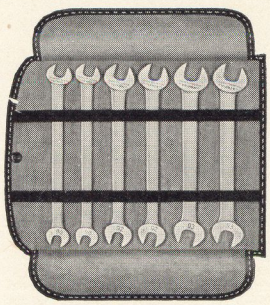
No. 2096 Ebony All Over.....Suggested List Price, Per Set, **$1.90**
No. 2400 Semi-Finished.....Suggested List Price, Per Set, **2.30**
No. 2181 Nickel Plated.....Suggested List Price, Per Set, **2.75**

Approximate Weight, per Set.....15 oz.

Vlchek "Parabolic" Chrome-Molybdenum Tappet Sets

IN ENAMELED DRILL CASE

VLCHEK Chrome-Molybdenum Tappet Wrenches are electrically heat treated to insure uniform hardness. They are exceptionally strong and yet of thin design for tappet adjustment service. These wrenches can be supplied in three finishes as specified below. Dependable, very tough and accurate as to milled openings.



"6" PIECE SET

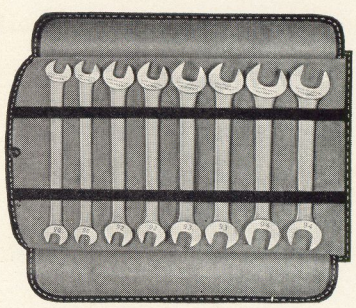
Set consists of two (2) each of the following Wrenches:
Nos. 90, 92 and 93.

No. 2416	Ebony All Over, complete in roll	Suggested List Price, Per Set,	**$3.15**
No. 2426	Semi-Finished, complete in roll	Suggested List Price, Per Set,	**3.80**
No. 2406	Nickel Plated, complete in roll	Suggested List Price, Per Set,	**4.40**

Approximate Weight, per Set.....1 lb. 5 oz.

"8" PIECE SET

Set consists of two (2) each of the following Wrenches:
Nos. 90, 92, 93 and 94.



No. 2418	Ebony All Over, complete in roll	Suggested List Price, Per Set,	**$4.50**
No. 2428	Semi-Finished, complete in roll	Suggested List Price, Per Set,	**5.40**
No. 2408	Nickel Plated, complete in roll	Suggested List Price, Per Set,	**6.20**

See Page No. 9 for Specifications of Wrenches.

Approximate Weight, per Set.....1 lb. 15 oz.

Vlchek "Parabolic" 20-Degree and Straight Head Chrome-Molybdenum Tappet Wrenches

VLCHEK Chrome-Molybdenum Tappet Wrenches are electrically heat-treated to insure uniform hardness. They are exceptionally strong and yet of thin design for tappet adjustment service. Dependable, very tough and accurate as to milled openings. Each end opening milled the same size. Chromium Plated. Heads are mirror polished.

Wrench No.	Openings Milled	AMERICAN STANDARD: Rough, Semi-Fin. and Finished Square and Hex. Reg. and Jam Nuts	AMERICAN STANDARD: Hexagon Light Nuts	AMERICAN STANDARD: Hexagon Castellated Nuts	AMERICAN STANDARD: Hexagon Head Cap Screws	AMERICAN STANDARD: Rough and Semi-Finished Square and Hex. Bolt Heads	AMERICAN STANDARD: Finished Square and Hex. Bolt Heads	USS Nuts and Bolt Heads	SAE Nuts, Plain, Jam and Castellated	Extreme Length	Thickness of Heads	Suggested List Price
1090	1/2—1/2	5/16	5/16	5/16	5/16	5/16	5/16	1/4	5/16	8	11/64	**$0.98**
1091	9/16—9/16		3/8	3/8	3/8	3/8			3/8	8	3/16	**1.10**
1092	5/8—5/8	3/8	7/16	7/16	7/16	7/16	3/8		7/16	8	13/64	**1.14**
1093	11/16—11/16							3/8		8	13/64	**1.19**

Packed Half Dozen in a Box

"8" PIECE SET

Consists of two (2) each of the above wrenches assembled in Black Back Enameled Drill Roll (same type roll as shown on Page 19).

No. 2448 Chromium Plated, complete in roll.....Suggested List Price, Per Set **$9.60**

Chevrolet Brake Adjustment Wrench

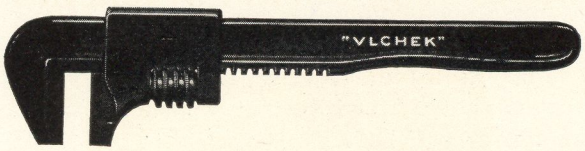
VLCHEK'S Right Angle Brake Adjustment Wrench is designed to make Chevrolet brake adjustments easy and quick. Made of Chrome-Molybdenum Steel, with the Vlchek Parabolic Head, this wrench meets the demand for a high grade, tough wrench that will stand hard use.

No. 5729 Brake Wrench, Nickel Plated. Openings, 5/8 x 3/4 inch. Length, 7 1/2 inches. Thickness of Heads, 15/64 inch.....Suggested List Price, Each **$1.35**

Packed Half Dozen in a Box

Automobile Wrenches

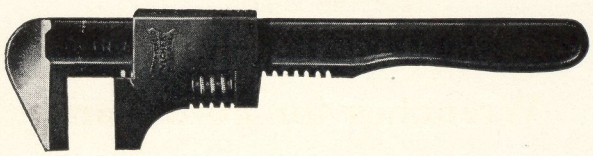
Open Hearth Steel **Forged**



Length Over All, Inches		5	7	9	10	11	14	18
Jaw Opens, Inches		1¼	1½	2¼	2½	2¾	3½	4½
Natural Finish	Catalog No.	**WA905**	**WA907**	**WA909**	**WA910**	**WA911**	**WA914**	**WA918**
	Suggested List Price, Per Dozen	**$5.25**	**$5.25**	**$5.25**	**$6.50**	**$8.10**	**$19.00**	**$41.40**
Ebony Finish	Catalog No.	**WA605**	**WA607**	**WA609**	**WA610**	**WA611**	**WA614**	**WA618**
	Suggested List Price, Per Dozen	**$5.95**	**$5.95**	**$5.95**	**$7.00**	**$9.35**	**$22.80**	**$46.80**

Packed Half Dozen in a Box

Heavy Duty



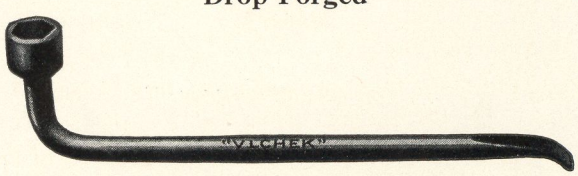
Made in 11-inch size only. Ebony finish polished nose. An all steel Automobile Wrench with drop forged steel jaw broached and tempered to give a smooth and positive action.

No. WA511S.....Suggested List Price, Per Doz. **$21.60**

Packed Half Dozen in a Box

Combination Rim Wrench and Tire Tool

Drop Forged



Properly Hardened

No. WR611 Size 11/16", Ebony Finish.....Suggested List Price, Per Doz. **$4.15**
No. WR612 Size ¾", Ebony Finish.....Suggested List Price, Per Doz. **4.15**
No. WR614 Size ⅞", Ebony Finish.....Suggested List Price, Per Doz. **4.15**

Packed Half Dozen in a Box

Double End Tubing
Spark Plug Socket Wrenches

Openings: $^{29}/_{32}$ and $1^{5}/_{32}$-inch

$1^{1}/_{32}$ and $1^{5}/_{32}$-inch $^{31}/_{32}$ and $1^{5}/_{32}$-inch

Length Over All, Inches.....4½

No. WUD9 Natural Finish, with Handles for Turning...Suggested List Price, Per Doz. **$5.15**

No. WUD6 Ebony Finish, with Handles for Turning.....Suggested List Price, Per Doz. **5.85**

Packed in Bulk

Wrenches for Ford Cars

Spark Plug and Cylinder Head Wrench

Model A

Size Open End, $1^{1}/_{8}$-Inch—Size Hexagon Opening, $^{11}/_{16}$-Inch—Length Over-all, 11-Inch.

No. 17017 Natural Finish.....Suggested List Price, Per Doz. **$4.80**

No. 17017-B Ebony All Over.....Suggested List Price, Per Doz. **5.15**

No. 17017-C Ebony Body, Polished Ends.....Suggested List Price, Per Doz. **5.85**

Packed in Bulk

Star Drills

Tool Steel **Drop Forged**

Vlchek Brand

Self Centering

No. RC9 Natural Finish

Special attention is called to the quality, shape and finish of these drills. Highest grade tool steel, made expressly for this class of stone tools. Upset and forged to allow proper degree of clearance on blades, thereby preventing choking. Cutting edges are sharp. Tempered to proper hardness. Every drill guaranteed to be the highest quality.

Cutting Diameter of Drill	SUGGESTED LIST PRICES				Shipping Weight 12-Inch Length Per Doz. Pounds
	8-Inch Length	12-Inch Length	18-Inch Length	24-Inch Length	
1/4	$ 8.25	$ 8.50	$11.00	.....	2 1/2
5/16	8.25	8.50	11.00	.....	2 1/2
3/8	8.25	8.50	11.00	$13.50	3 1/2
7/16	8.70	9.00	11.50	.....	3 1/2
1/2	9.65	10.00	12.50	15.00	5
9/16	.....	12.00	.....	.....	6
5/8	11.65	12.00	15.00	17.50	7
11/16	.....	13.00	.....	.....	9
3/4	.....	14.00	17.50	20.00	11
7/8	.....	16.00	20.00	22.50	14
1	.....	18.00	22.50	25.00	19 1/2
1 1/8	.....	24.00	28.00	32.00	26
1 1/4	.....	30.00	35.00	40.00	28
1 3/8	.....	40.00	45.00	.....	31
1 1/2	.....	50.00	56.00	62.00	37

Packed in Bulk

Machinists' Ball Pein Hammers

Special Hammer Steel **Drop Forged**

Selected Hickory Handles

Vlchek Brand

No. 104 Ebony, Semi-finished, Polished Face and Pein.
No. 106 Natural, Semi-finished, Polished Face and Pein.

Size	5/0	4/0	3/0	2/0	0	1	2
Weight of Head	4-oz.	6-oz.	8-oz.	12-oz.	1-lb.	1¼-lb.	1½-lb.
Length Over-all, Inches	12	12	13	14	14	15	16
No. 104 Suggested List Price, per Doz.	**$13.65**	**$13.65**	**$13.65**	**$13.65**	**$14.25**	**$15.50**	**$16.50**
No. 106 Suggested List Price, per Doz.	.....	.....	.....	**13.65**	**14.25**	**15.50**	**16.50**

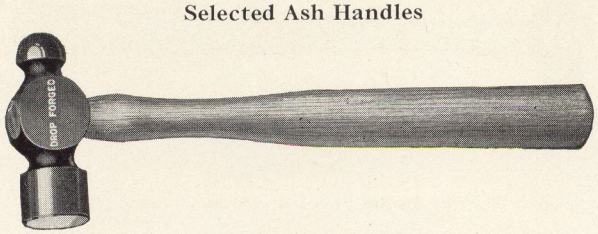
Size	3	4	5	6	7	8
Weight of Head	1¾-lb.	2-lb.	2¼-lb.	2½-lb.	2¾-lb.	3-lb.
Length Over-all, Inches	16	16½	16½	17	17	17
No. 104 Suggested List Price, per Doz.	**$17.70**	**$18.75**	**$21.00**	**$23.25**	**$24.30**	**$25.50**
No. 106 Suggested List Price, per Doz.	**17.70**	**18.75**	**21.00**	**23.25**	**24.30**	**25.50**

Packed Half Dozen in a Box

Ball Pein Hammers

High Carbon Steel **Drop Forged**

Selected Ash Handles



Standard Brand

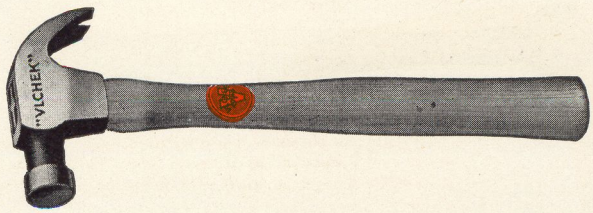
No. 101 Ebony, Semi-finished.
No. 103 Natural, Semi-finished.

Weight of Head	10-oz.	12-oz.	1-lb.
Length Over-all, Inches	10½	10½	11
No. 101 Finish, Suggested List Price, per Doz.	**$5.70**	**$6.75**	**$8.25**
No. 103 Finish, Suggested List Price, per Doz.	**5.55**	**6.45**	**7.95**

Packed Half Dozen in a Box

Nail Hammers

The Standard Bell Face Type in the Most Popular Size—Manufactured by the Vlchek Improved Process With Selected White Hickory Handle



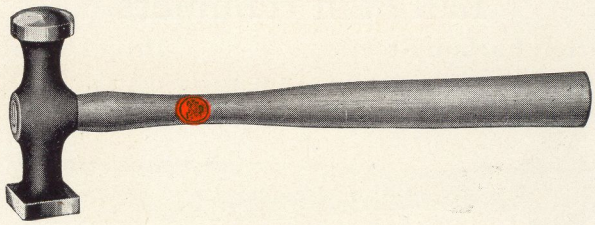
	Number	Size	Weight Ounces	Suggested List Price Per Doz.
Adze Eye, Bell Face, Polished	**402**	11½	16	**$16.25**
Adze Eye, Bell Face, Ebony, Semi-finished	**404**	11½	16	**12.25**

Packed Half Dozen in a Box

Bumping or Finishing Hammer

High Carbon Open Hearth Steel **Drop Forged**

Selected Hickory Handles



Vlchek Brand

For Use of Sheet Metal Workers

Weight, Ounces	10
Length of Head, Inches	4
Length Over-all, Inches	14
Diameter of Square Face, Inches	1¼
Diameter of Round Face, Inches	1¼

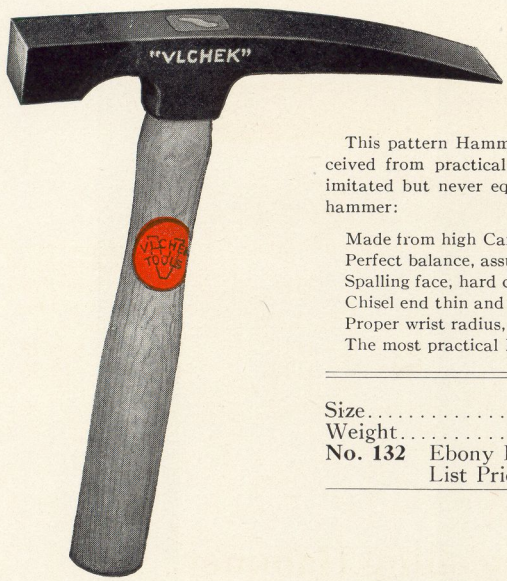
No. 120 Ebony Finish, Polished Faces.....Suggested List Price, Per Doz. **$13.50**

Packed Half Dozen in a Box

Bricklayers' Hammers

High Carbon Tool Steel **Drop Forged**

Selected Hickory Handles



Vlchek Brand

This pattern Hammer was originated by F. J. Vlchek, from suggestions received from practical bricklayers. The "Vlchek" Hammer has been widely imitated but never equalled—the following features being found only in this hammer:

Made from high Carbon Tool Steel.
Perfect balance, assuring straight blow.
Spalling face, hard center and four tough, sharp edges.
Chisel end thin and sharp, ready for use.
Proper wrist radius, prevents straining the hand.
The most practical Brick Hammer on the market.

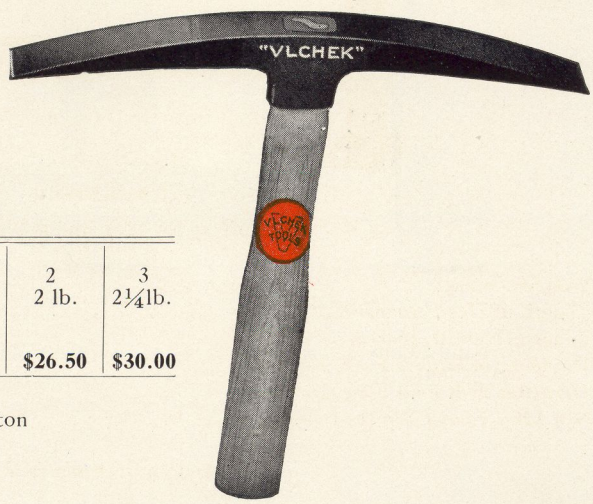
Size	1	2	3
Weight	1¾ lb.	2 lb.	2½ lb.
No. 132 Ebony Finish, Suggested List Price, Per Doz.	**$18.00**	**$18.75**	**$20.25**

Packed Four in a Carton

Brick Sketz

High Carbon Tool Steel **Drop Forged**

Selected Hickory Handles

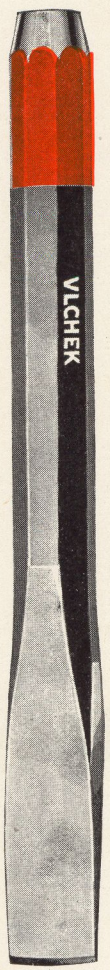


Vlchek Brand

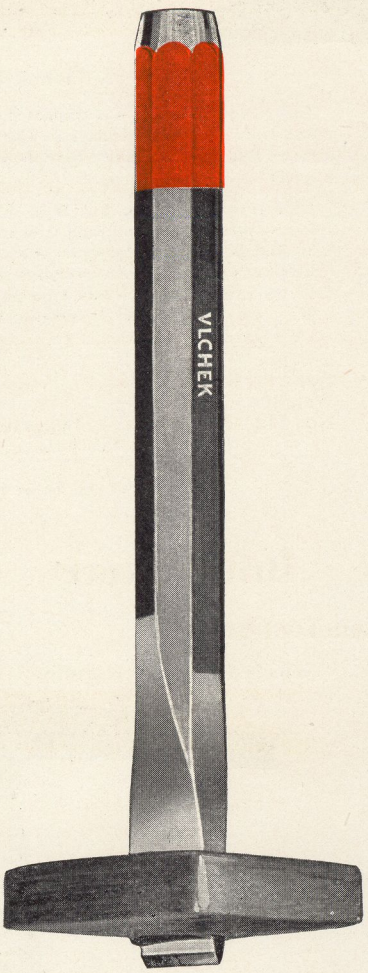
Size	1	2	3
Weight	1¾ lb.	2 lb.	2¼lb.
No. 136 Ebony Finish, Suggested List Price, Per Doz.	**$25.00**	**$26.50**	**$30.00**

Packed Four in a Carton

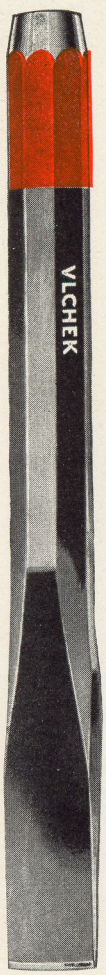
Cold Chisels



Red and Ebony,
Half Polished



½-Inch Vlchek Cold Chisel Drifted through ⅜-Inch Cold Boiler Plate



Natural Finish,
with Red Top

Cold Chisels

Chrome Vanadium Steel — Forged

Vlchek Brand

No. CCV9R Natural Finish, with Red Top.
No. CCV5R Red and Ebony, Half Polished.

Size Oct. Steel, Inches	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Length, Inches	5	5 1/4	5 1/2	6	6	7	7 1/2	8	8 1/2
Width of Cutting Edge, Inches	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/8
Weight, per Doz., about, Lbs	1	1 1/2	2 1/4	3 1/2	4	7	11	15	20
Standard Package	6	6	6	6	6	6	6	6	6
No. CCV9R Suggested List Price, Per Doz.	**$3.15**	**$3.30**	**$3.45**	**$4.20**	**$4.35**	**$6.60**	**$9.30**	**$12.30**	**$15.60**
No. CCV5R Suggested List Price, Per Doz.	**3.90**	**4.50**	**4.65**	**5.25**	**6.30**	**8.10**	**10.50**	**13.65**	**18.15**

See Page 27 for Finishes

Cold Chisels

High Carbon Steel — Forged

Standard Brand

No. CCC9 Natural Finish.
No. CCC5 Ebony, Half Polished.

Size Oct. Steel, Inches	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Length, Inches	5	5 1/4	5 1/2	6	6	7	7 1/2	8	8 1/2
Width of Cutting Edge, Inches	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/8
Weight, per Doz., about, Lbs.	1	1 1/2	2 1/4	3 1/2	4	7	11	15	20
Standard Package	6	6	6	6	6	6	6	6	6
No. CCC9 Suggested List Price, Per Doz.	**$1.95**	**$1.95**	**$1.95**	**$2.40**	**$2.70**	**$3.90**	**$5.10**	**$7.20**	**$9.60**
No. CCC5 Suggested List Price, Per Doz.	**3.15**	**3.15**	**3.15**	**4.05**	**4.20**	**5.40**	**7.50**	**9.30**	**12.15**

See Page 27 for Finishes

Extra Length Cold Chisels

Chrome Vanadium Steel **Forged**

Vlchek Brand

No. CEV9 Natural Finish

SUGGESTED LIST PRICE PER DOZEN

Diameter of Octagon Steel

Length Inches	½	⅝	¾	⅞	1	1¼
10	$8.85	.....	.....	$21.00	.....	.....
12	9.60	$12.60	$18.00	23.25	$27.75	$44.25
18	.....	15.90	22.50	.....	33.75	55.50
24	.....	.....	27.00	.....	40.50	66.00

Packed in Bulk

Extra Length Cold Chisels

High Carbon Steel **Forged**

Standard Brand

No. CEC9 Natural Finish

SUGGESTED LIST PRICE PER DOZEN

Diameter of Octagon Steel

Length Inches	½	⅝	¾	⅞	1	1¼
12	$7.50	$8.70	$12.00	$15.00	$16.50	$27.00
18	.....	.....	13.50	17.70	18.75	33.00
24	.....	.....	16.50	.....	.....	38.55

Packed in Bulk

Cape Chisels

Chrome Vanadium Steel — Forged

Vlchek Brand

No. CPV9R Natural Finish, with Red Top.
No. CPV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	1/4	5/16	3/8	1/2	5/8	3/4
Size Cutting Edge, Inches	3/16	7/32	1/4	5/16	3/8	1/2
Length, Inches	5	5 1/2	5 1/2	6 1/2	7 1/2	8
Weight, per Doz., about, Lbs.	3/4	1 1/2	2	3 3/4	7	10
No. CPV9R Suggested List Price, Per Doz.	**$5.25**	**$5.25**	**$5.25**	**$6.45**	**$9.45**	**$11.40**
No. CPV5R Suggested List Price, Per Doz.	**6.75**	**6.75**	**6.75**	**7.80**	**11.40**	**15.30**
Standard Package	6	6	6	6	6	6

See Page 27 for Finishes

Cape Chisels

High Carbon Steel — Forged

Standard Brand

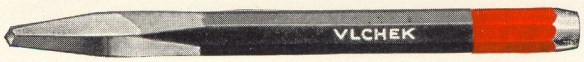
No. CPC9 Natural Finish.
No. CPC5 Ebony, Half Polished.

Size Octagon Steel, Inches	3/8	1/2	5/8	3/4
Size Cutting Edge, Inches	1/4	5/16	3/8	1/2
Length, Inches	5 1/2	6 1/2	7 1/2	8
Weight, per Doz., about, Lbs.	2 1/4	4	7	11
No. CPC9 Suggested List Price, Per Doz.	**$4.05**	**$4.50**	**$6.90**	**$ 7.80**
No. CPC5 Suggested List Price, Per Doz.	**5.55**	**6.00**	**9.45**	**10.80**
Standard Package	6	6	6	6

See Page 27 for Finishes

Diamond Point Chisels

Chrome Vanadium Steel **Forged**



Vlchek Brand

No. CDV9R Natural Finish, with Red Top.
No. CDV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	3/8	1/2	5/8	3/4
Size Point, Inches	1/4	5/16	3/8	1/2
Length, Inches	5 1/2	6 1/2	7 1/2	8
No. CDV9R Suggested List Price, Per Doz.	**$4.95**	**$6.75**	**$9.45**	**$10.80**
No. CDV5R Suggested List Price, Per Doz.	**6.15**	**7.35**	**10.50**	**12.45**
Standard Package	6	6	6	6

See Page 27 for Finishes

Half Round Nose Chisels

Chrome Vanadium Steel **Forged**

Vlchek Brand

No. CHV9R Natural Finish, with Red Top.
No. CHV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	3/8	1/2	3/4
Size Point, Inches	1/4	5/16	1/2
Length, Inches	5 1/2	6 1/2	8
No. CHV9R Suggested List Price, Per Doz.	**$5.25**	**$6.75**	**$12.30**
No. CHV5R Suggested List Price, Per Doz.	**7.35**	**9.90**	**15.30**
Standard Package	6	6	6

See Page 27 for Finishes

All Purpose Punch and Chisel Set

HERE'S the latest Vlchek idea of an unusually handy Chisel and Punch Set—forged and tempered for average use: consisting of the following—3/8" Cold Chisel; 1/2" Cold Chisel; 3/8" Solid Punch; 1/2" Solid Punch and 3/8" Center Punch; packed in metal container.

Quality: Made of High Grade Carbon Steel, forged and hardened.

No. 2071
Red Holder
Natural Tools

No. 2198
Red Holder
Ebony All Over Tools

No. 2072
Red Holder
Ebony Half Polished Tools

Here is the largest selling Punch and Chisel Set in the world.

It is ideal for open table or counter display. This Set will help you keep ahead of competition and it is sold at a price that can't be beaten.

For Mechanics, Garage, Shop and Household use.

Dependable Quality at a price.

No. 2071	Natural Finish	Suggested List Price, Per Set,	**$0.80**
No. 2198	Ebony All Over Finish	Suggested List Price, Per Set,	**.88**
No. 2072	Ebony Half Polished Finish	Suggested List Price, Per Set,	**1.15**

Can also be supplied in Vanadium Alloy Steel. (See Page 33)

Approximate Weight, per Set.....1 lb. 1 oz.

Vlchek Vanadium Alloy Punch and Chisel Set

CONSISTING of the following Vlchek High Grade Tools: 3/8" Cold Chisel; 1/2" Cold Chisel; 3/8" Solid Punch; 1/2" Solid Punch and 3/8" Center Punch. Packed in metal container.

This Set of Punches and Chisels is made from a high grade Vanadium Alloy Steel and is intended for Mechanics who need a quality tool. Due to volume production and the most modern practice in manufacturing, **Vlchek** is enabled to offer this Vanadium Punch and Chisel Set at an attractive price.

No. 2409

Dark Blue Holder

Light Blue (All Over) Tools

No. 2410

Dark Blue Holder

Tools, Light Blue Shank

Polished Taper and Top

No. 2409 Blue All Over.....Suggested List Price, Per Set, **$1.35**

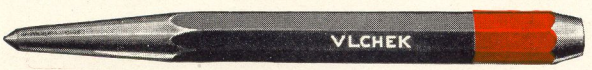
No. 2410 Blue, Half Polished.....Suggested List Price, Per Set, **1.60**

Can also be supplied in High Grade Carbon Steel. (See Page 32).

Approximate Weight, per Set.....1 lb. 1 oz.

Machinists' Center Punches

Chrome Vanadium Steel **Forged**



Vlchek Brand

No. UCV9R Natural Finish, with Red Top.
No. UCV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2
Length, Inches	4 1/4	4 1/2	5	5 1/4
No. UCV9R Suggested List Price, Per Doz.	**$3.15**	**$3.15**	**$4.20**	**$4.35**
No. UCV5R Suggested List Price, Per Doz.	**3.60**	**3.60**	**5.25**	**5.55**
Standard Package	6	6	6	6

See Page 27 for Finishes

Machinists' Center Punches

High Carbon Steel **Forged**

Standard Brand

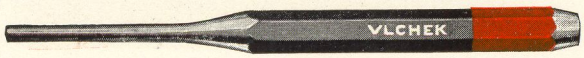
No. UCC9 Natural Finish.
No. UCC5 Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2
Length, Inches	4 1/4	4 1/2	5	5 1/4
No. UCC9 Suggested List Price, Per Doz.	**$1.65**	**$1.65**	**$2.55**	**$3.15**
No. UCC5 Suggested List Price, Per Doz.	**2.40**	**2.40**	**3.60**	**4.35**
Standard Package	6	6	6	6

See Page 27 for Finishes

Machinists' Drift Punches

Chrome Vanadium Steel **Forged**



Vlchek Brand

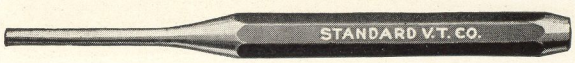
No. UDV9R Natural Finish, with Red Top.
No. UDV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2
Length, Inches	4 1/2	4 3/4	5 1/2	6
Size Point, Inches	3/32	1/8	5/32	3/16
No. UDV9R Suggested List Price, Per Doz.	**$3.75**	**$3.90**	**$4.50**	**$5.40**
No. UDV5R Suggested List Price, Per Doz.	**4.80**	**5.10**	**5.70**	**6.45**
Standard Package	6	6	6	6

See Page 27 for Finishes

Machinists' Drift Punches

High Carbon Steel **Forged**



Standard Brand

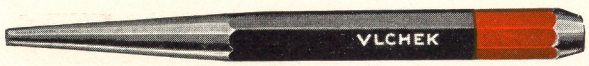
No. UDC9 Natural Finish.
No. UDC5 Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2	5/8
Length, Inches	4 1/2	4 3/4	5 1/2	6	6 1/2
Size Point, Inches	3/32	1/8	5/32	3/16	1/4
No. UDC9 Suggested List Price, Per Doz.	**$2.85**	**$2.85**	**$3.60**	**$3.90**	**$5.25**
No. UDC5 Suggested List Price, Per Doz.	**3.90**	**3.90**	**5.10**	**5.25**	**6.75**
Standard Package	6	6	6	6	6

See Page 27 for Finishes

Machinists' Solid Punches

Chrome Vanadium Steel **Forged**



Vlchek Brand

No. USV9R Natural Finish, with Red Top.

No. USV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2	5/8	3/4
Length, Inches	4 1/2	4 3/4	5 1/2	6	6	6 1/2
Size Point, Inches	3/32	1/8	5/32	3/16	1/4	5/16
No. USV9R Suggested List Price, Per Doz.	**$2.55**	**$2.55**	**$3.75**	**$4.05**	**$6.75**	**$ 9.15**
No. USV5R Suggested List Price, Per Doz.	**3.30**	**3.30**	**4.65**	**4.80**	**7.65**	**10.20**
Standard Package	6	6	6	6	6	6

See Page 27 for Finishes

Machinists' Solid Punches

High Carbon Steel **Forged**

Standard Brand

No. USC9 Natural Finish.

No. USC5 Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2	5/8
Length, Inches	4 1/2	4 3/4	5 1/2	6	6
Size Point, Inches	3/32	1/8	5/32	3/16	1/4
No. USC9 Suggested List Price, Per Doz.	**$1.35**	**$1.35**	**$1.95**	**$2.25**	**$4.05**
No. USC5 Suggested List Price, Per Doz.	**2.55**	**2.55**	**3.15**	**3.75**	**5.85**
Standard Package	6	6	6	6	6

See Page 27 for Finishes

Long Taper Punches

Chrome Vanadium Steel **Forged**

Vlchek Brand

No. ULV9R Natural Finish, with Red Top.

No. ULV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2	5/8
Size of Point, Inches	3/32	1/8	5/32	3/16	1/4
Length Over-all, Inches	9	9	9	9	9
Length of Taper, Inches	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
No. ULV9R Suggested List Price, Per Doz.	**$4.50**	**$4.50**	**$5.55**	**$6.15**	**$7.35**
No. ULV5R Suggested List Price, Per Doz.	**5.70**	**5.85**	**6.90**	**7.50**	**8.70**
Standard Package	6	6	6	6	6

See Page 27 for Finishes

Long Taper Punches

High Carbon Steel **Forged**

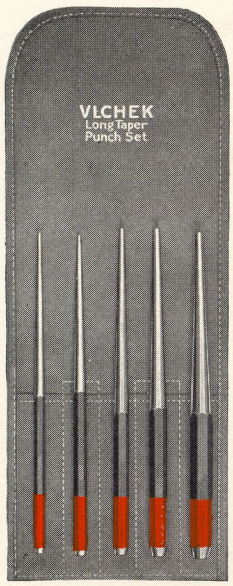
Standard Brand

No. ULC9 Natural Finish.

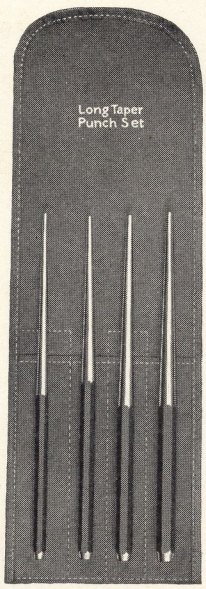
No. ULC5 Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2	5/8
Size of Point, Inches	3/32	1/8	5/32	3/16	1/4
Length Over-all, Inches	9	9	9	9	9
Length of Taper, Inches	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
No. ULC9 Suggested List Price, Per Doz.	**$3.90**	**$3.90**	**$4.65**	**$4.95**	**$5.25**
No. ULC5 Suggested List Price, Per Doz.	**5.10**	**5.10**	**5.70**	**6.00**	**6.90**
Standard Package	6	6	6	6	6

See Page 27 for Finishes



Vlchek Brand



Standard Brand

Long Taper Punches in Sets of Four

		Suggested List Price, Per Set
No. AULV9R4	Consists of Four Long Taper Punches, 5/16, 3/8, 7/16 and 1/2 inches, Vlchek Brand, Natural Finish, with Red Top	**$2.00**
No. AULV5R4	As Above, Vlchek Brand, Red and Ebony, Half Polished	**2.45**
No. AULC94	As Above, Standard Brand, Natural Finish	**1.75**
No. AULC54	As Above, Standard Brand, Ebony, Half Polished	**2.10**

Price Includes Case Made from Enameled Drill Material

Packed One Set in a Carton

Long Taper Punches in Sets of Five

No. AULV9R5	Consists of Five Long Taper Punches, 5/16, 3/8, 7/16, 1/2 and 5/8 inches, Vlchek Brand, Natural Finish, with Red Top	**2.60**
No. AULV5R5	As Above, Vlchek Brand, Red and Ebony, Half Polished	**3.15**
No. AULC95	As Above, Standard Brand, Natural Finish	**2.20**
No. AULC55	As Above, Standard Brand, Ebony, Half Polished	**2.70**

Price Includes Case Made from Enameled Drill Material

Packed One Set in a Carton

Tinners' Prick Punches

Chrome Vanadium Steel **Forged**

Vlchek Brand

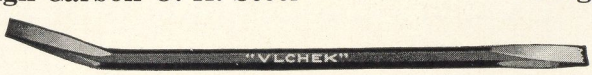
No. UPV9R Natural Finish, with Red Top
No. UPV5R Red and Ebony, Half Polished.

Size Octagon Steel, Inches	5/16	3/8	7/16	1/2
Length, Inches	4 3/4	5	5 1/2	6
No. UPV9R Suggested List Price, Per Doz.	**$3.30**	**$3.30**	**$4.20**	**$4.50**
No. UPV5R Suggested List Price, Per Doz.	**4.35**	**4.35**	**5.10**	**5.70**
Standard Package	6	6	6	6

See Page 27 for Finishes

Pry Bars

High Carbon O. H. Steel **Forged**



Vlchek Brand

Very convenient to use as a tire tool.

Length, inches 14
Size Octagon Steel, inches 1/2
No. YC914 Natural Finish, Polished Tapers ..... Suggested List Price, Per Doz. **$8.10**

Packed in Bulk

Cotter Pin Extractors

High Carbon Steel **Forged**

Vlchek Brand

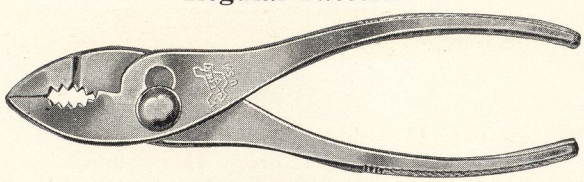
Size Square Steel, Inches 5/16
Length, Inches 5 1/2
No. EC9 Natural Finish ..... Suggested List Price, Per Doz. **$1.80**
No. EC6 Ebony Finish ..... Suggested List Price, Per Doz. **2.10**

Packed Half Dozen in a Box

VLCHEK
Combination Pliers

Drop Forged **Regular Pattern** **Tempered**

Wire Cutter



Bolt and Nut Slip Joint

Bright Nickel Finish — Satin Nickel Finish — Black Oil Finish

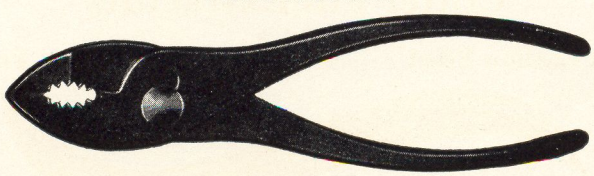
Size		5″	6″	8″	10″
Bright Nickel Finish, Knurled Handles. Packed One in a Box.	Catalog No.	**PR305**	**PR306**	**PR308**	**PR310**
	Suggested List Price, Per Dozen	**$5.95**	**$5.95**	**$8.55**	**$12.00**
Satin Nickel Finish, Knurled Handles. Packed One in a Box.	Catalog No.	**PR405**	**PR406**	**PR408**	**PR410**
	Suggested List Price, Per Dozen	**$3.65**	**$3.65**	**$5.15**	**$8.10**
Black Oil Finish, Plain Handles. Packed One Dozen in a Box.	Catalog No.	**PR805**	**PR806**	**PR808**	**PR810**
	Suggested List Price, Per Dozen	**$2.90**	**$2.90**	**$4.05**	**$6.05**
Approx. Weight, lbs., per Doz.		2¾	4¾	6½	12

PR306 and PR406 can also be packed one dozen to a carton if so desired.
Black Oil Finish can also be furnished in bulk.
Please specify packing desired.

6″ Combination Pliers

Drop Forged **Plain Handles** **Tempered**

Wire Cutter



Riveted Slip Joint

Black Oil Finish

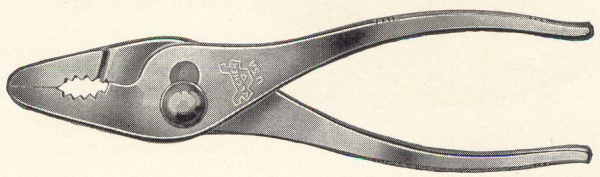
Catalog **No. PR806R** ..... Suggested List Price, Per Dozen **$2.70**

This Plier furnished in 6 inch size and Black Oil Finish only.
Packed One Dozen to a Carton or in Bulk.
Approx. Weight, per Dozen ..... 5¼ lbs.
Please specify packing desired.

VLCHEK
Straight Thin Nose Pliers

Drop Forged **Knurled Handles** **Tempered**

Wire Cutter



Bolt and Nut Slip Joint

Catalog No.	Size	Finish	Suggested List Price, Per Dozen
PS305	5″	Bright Nickel Finish	**$6.35**
PS306	6″	Bright Nickel Finish	**6.75**
PS406	6″	Satin Nickel Finish	**4.45**

All Pliers packed in Individual Cartons.

PS406 can also be packed one dozen to a carton, if so desired.

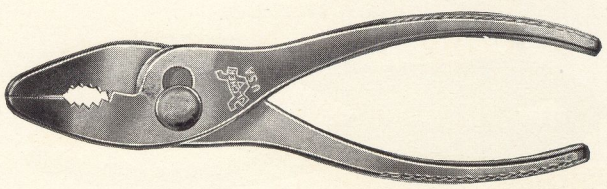
Approx. Weight, per Dozen.....3¾ lbs.

Please specify packing desired.

VLCHEK
Bent Thin Nose Pliers

Drop Forged **Knurled Handles** **Tempered**

Wire Cutter



Bolt and Nut Slip Joint

Bright Nickel Finish

Catalog **No. PB306**.....Suggested List Price, Per Dozen **$7.00**

This Plier furnished in 6 inch size and Bright Nickel Finish only.

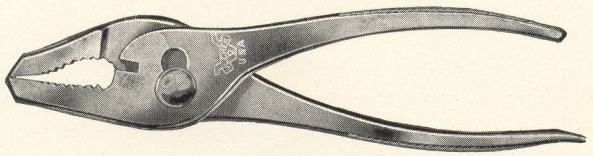
Approx. Weight, per Dozen.....4½ lbs.

Packed One to a Box.

VLCHEK
7″ Universal Pliers

Drop Forged **Knurled Handles** **Tempered**

Wire Cutter



Bolt and Nut Slip Joint

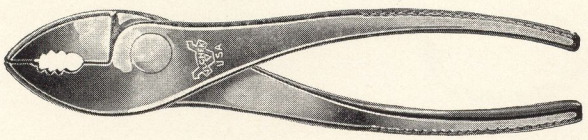
This Plier furnished in 7 inch size only.

Catalog **No. PU307** Bright Nickel Finish.....Suggested List Price, Per Dozen **$8.10**
Catalog **No. PU807** Black Oil Finish.....Suggested List Price, Per Dozen **6.50**

Packed One to a Box.
PU807 can also be packed one dozen to a carton, if so desired.
Approx. Weight, per Dozen.....6 lbs.
Please specify packing desired.

7″ Side Cutting Pliers

Drop Forged **Knurled Handles** **Tempered**

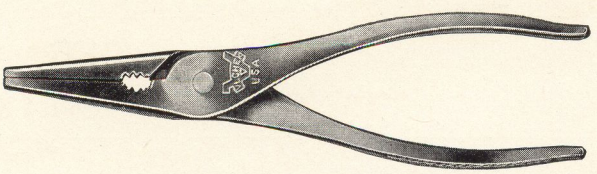


Catalog **No. PC307** Bright Nickel Finish.....Suggested List Price, Per Dozen **$10.10**
Approx. Weight, per Dozen.....5¼ lbs.
Packed One to a Box.

6″ Long Thin Nose Pliers

Drop Forged **Tempered**

Wire Cutters



Knurled Handles

Catalog **No. PL306** Bright Nickel Finish.....Suggested List Price, Per Dozen **$7.00**
Approx. Weight, per Dozen.....2¼ lbs.
Packed One to a Box.

VLCHEK

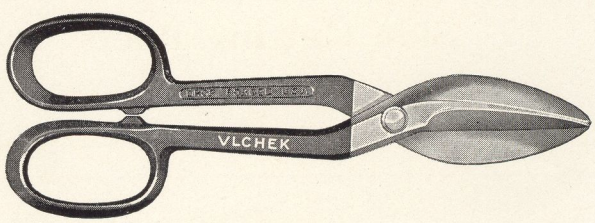
Tinners' Snips

Vlchek Tinners' Snips are Drop Forged from the highest quality steel for this purpose, and are carefully hardened and tempered with the aim of supplying a keen, durable cutting edge.

Jaws are polished all over and handles are enameled in an attractive red.

Note that Catalog No. XB512 has the bevelled blades for cutting circles, scrolls, and other curved work.

Drop Forged **Tempered**



Polished Blades Red Handles

Catalog No.	Size	Length and Type of Cutting Edge	Suggested List Price, Per Dozen
XS507	7″	2″ Straight	**$10.50**
XS510	10″	2¾″ Straight	**13.60**
XS512	12″	3″ Straight	**15.60**
XB512	12″	3″ Beveled	**16.75**

Approx. Weight, per Dozen.....14¼ lbs.

Packed in Paper Envelope

VLCHEK

"Chrome Alloy" MULTIGRIP Pliers

Although this tool is described as intended for tightening the water pump packing nuts on practically all passenger cars, trucks, and industrial engines, experience has shown it to be a wonderfully adaptable tool for countless other purposes.

It is Drop Forged from Chrome Alloy Steel, hardened and tempered, to supply enormous strength yet the thin-ness required to reach otherwise inaccessible places. Teeth are milled especially to furnish an extremely positive slip-proof grip. The 45° offset construction retains the full width of jaw at all openings.

Openings range from ½" to 1⅞"

Drop Forged **Slip Joint**

Bright Nickel Finish

No. PM 309½ 9½"..... Suggested List Price, Each **$2.10**

Approx. Weight, lbs. Six in a Box.....2¾

Packed Six in a Box.

VLCHEK

"Chrome Alloy" MIDGET MULTIGRIP Plier

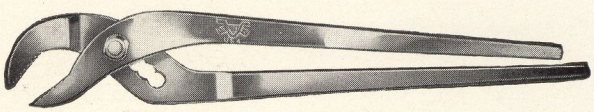
Due to the acceptance of the larger (9½-inch) Multigrip Plier as an all-around tool, the smaller Plier shown on this page was brought out for small nuts found in Ignition, Radio and Light Electrical work.

Only 4½ inches long and ⅛ inch thick, it is a handy pocket tool, instantly adaptable to a range of openings up to 9/16 inch.

It is Drop Forged from Chrome Alloy Steel, hardened and tempered for great strength, and fully nickel plated and polished. This is a wonderfully attractive "handy" tool.

Openings range from 0 inch to 9/16 inch

Drop Forged **Slip Joint**



Bright Nickel Finish

No. PM304½. 4½ inch.....Suggested List Price, Each, **$1.60**

Approximate Weight, Six in a Box.....8 oz.

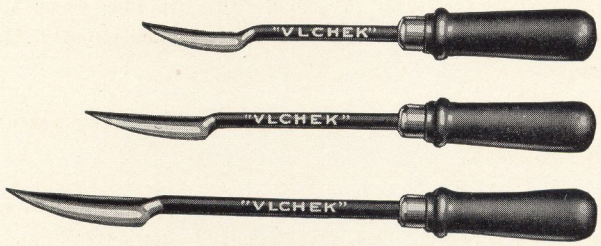
Packed Six in a Box

Machinists' Hollow Ground Bearing Scrapers

Tool Steel **Drop Forged**

Hollow Ground

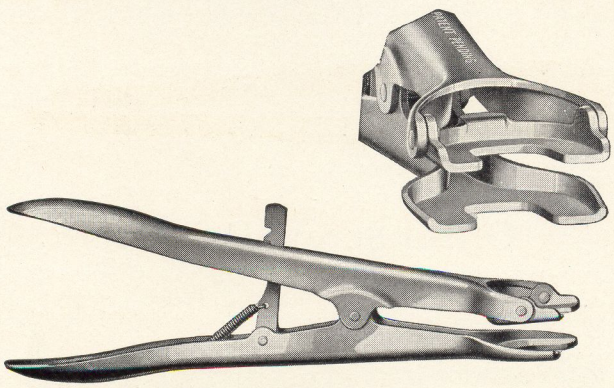
No. KH513½ Polished Blades, Ebony Shank.....Suggested List Price, Per Doz. **$9.00**
Length over all, 13½ inches
Packed Half Dozen in a Box
In Sets of Three*



Hollow Ground

No. AKH53 Polished Blades, Ebony Shank.....Suggested List Price, Per Set of Three **$2.10**
Packed One Set of Three in a Box
*Set consists of Three Scrapers, 10½, 11½ and 13½ inches over-all.

Vlchek FITZ-ALL Valve Lifter



No. 600 Valve Lifter

This new and improved Valve Lifter is a quick, efficient tool that will work on about 95% of all makes of cars. The swivel jaw keeps the Valve Spring in a perfect verticle position and when raised to the maximum height holds the Valve Spring in a compressed position, by a clever locking device, by pressing the thumb against the locking lever the Valve Spring is released.

No. 600 Nickel Tumbled Finish.....Suggested List Price, Each **$0.75**
Packed One in a Carton.
Approximate Weight, Each.....15 oz.

Tire Tool

Forged **Tempered**

Made of high carbon steel of sufficient length to easily remove a tire from the rim—rounded at each end and curved to prevent slipping.

No. TC6 Ebony Finish.....Suggested List Price, Per Doz. **$5.40**

Packed in Bulk

All Steel Screw Drivers

High Carbon Steel **Drop Forged**

Vlchek Brand

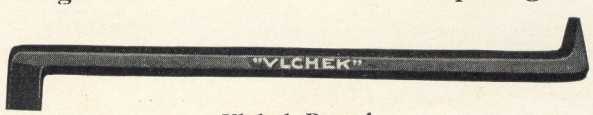
Size Square Shank, Inches..... 7/16
Length Over-all, Inches..... 9
Length of Blade, Inches..... 5

No. SDC509 Polished Shank, Ebony Handle.....Suggested List Price, Per Doz. **$6.00**
No. SDC909 Natural Finish All Over.....Suggested List Price, Per Doz. **4.80**

Packed Half Dozen in a Box

Offset Screw Drivers

High Carbon Steel **Drop Forged**



Vlchek Brand

Size Octagon Steel, Inches..... 5/16
Length, Inches..... 6

No. SFC606 Ebony Finish.....Suggested List Price, Per Doz. **$4.95**

Packed Half Dozen in a Box

Vlchek "ALLOY" Screw Drivers

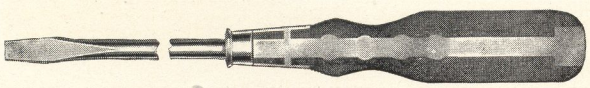
WE HAVE built into this Screw Driver every detail necessary to produce a practical, truly High Quality Tool. The blade is made of Chrome-Nickel Alloy Steel and is carefully heat treated and tempered.

The Hardwood Handle is specially shaped and beautifully finished in rubberoid.

Ferrule is Polished all over and the whole assembly securely riveted together.

The Blade extends through the handle, ending in a large diameter steel head.

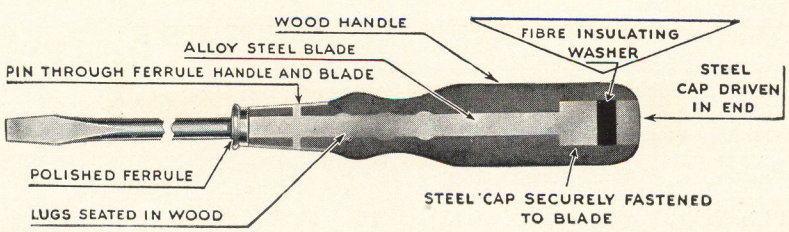
The screw driver may be hammered without injury.



We also produce this Chrome-Nickel Alloy Steel Screw Driver in an INSULATED PATTERN.

Insulation is secured by pressing in a plug of insulating fibre between the end of the blade and steel head. Such screw drivers are marked "INSULATED."

All Chrome Nickel Alloy Steel Screw Drivers are plainly marked with the Vlchek Insignia, which is our GUARANTEE.

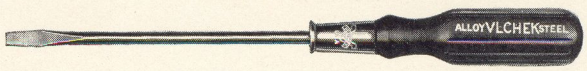


Refer to the other side for sizes

Vlchek "ALLOY" Screw Drivers

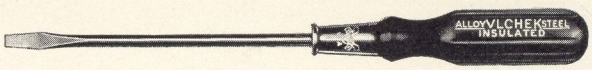
Regular (Hammer Head) Pattern

Round Shank—Polished Blades



Length of Blade, Inches	3	4	5	6	8	10	12
Catalog No.	**SA103**	**SA104**	**SA105**	**SA106**	**SA108**	**SA110**	**SA112**
Diameter of Blade, Inches	3/16	1/4	5/16	5/16	3/8	3/8	3/8
Length Over All, Inches	7	9 1/4	10 7/8	11 7/8	14 1/4	16 1/4	18 1/4
Approx. Weight, lbs., 1/2 Doz., Boxed	1 1/2	1 3/4	2 1/4	2 1/2	2 3/4	4 1/4	4 3/4
Suggested List Price, Per Dozen	**$5.55**	**$6.55**	**$7.60**	**$7.75**	**$12.00**	**$12.75**	**$13.50**

Insulated Handle



Length of Blade, Inches	3	4	5	6	8	10	12
Catalog No.	**SJ103**	**SJ104**	**SJ105**	**SJ106**	**SJ108**	**SJ110**	**SJ112**
Diameter of Blade, Inches	3/16	1/4	5/16	5/16	3/8	3/8	3/8
Length Over All, Inches	7	9 1/4	10 7/8	11 7/8	14 1/4	16 1/4	18 1/4
Approx. Weight, lbs., 1/2 Doz., Boxed	1 1/2	2	2 1/2	2 3/4	4	4 1/2	5
Suggested List Price, Per Dozen	**$6.15**	**$7.10**	**$8.20**	**$8.40**	**$12.95**	**$13.75**	**$14.40**

Packed Half Dozen in a Box

Vlchek "GLADIATOR" Screw Drivers

Scientifically Designed for Durability and Strength

THESE are made of a high grade steel of our own special analysis, giving a combination of hardness and great toughness. Blades are forged, heat treated, carefully tempered and polished all over. Handles are of hardwood, distinctively shaped, and finished in mahogany stain and varnished. Ferrules are nickel plated and pinned.

Blade, in the regular pattern, extends through the handle, ending in a large diameter steel head.

In addition to the regular pattern we supply this driver in a Cabinet or Electricians' pattern, distinguished by the straight sided point and slender blade. These Drivers have magnetized points, a feature appreciated by workers who need a long slender driver.

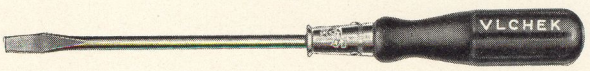
All "Gladiator" screw drivers are marked with the Vlchek Insignia, which is our GUARANTEE.

Refer to other side for sizes

Vlchek "GLADIATOR" Screw Drivers

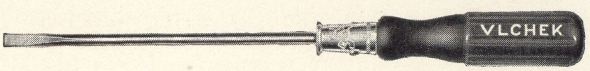
Regular (Hammer Head) Pattern

Round Shank—Polished Blades



Length of Blade, Inches	2½	3	4	5	6	8	10	12
Catalog No.	**SG102½**	**SG103**	**SG104**	**SG105**	**SG106**	**SG108**	**SG110**	**SG112**
Dia. of Blade, Inches	3/16	7/32	1/4	5/16	5/16	3/8	3/8	3/8
Length Over All, Inches	6 3/8	7 5/8	9 1/8	10 5/8	11 5/8	14 1/8	16 1/8	18 1/8
Approx. Weight, lbs., ½ Doz., Boxed	1¼	1½	1¾	2¼	2½	4	4¼	4¾
Suggested List Price, Per Dozen	**$4.95**	**$5.15**	**$5.60**	**$6.20**	**$6.40**	**$9.45**	**$9.80**	**$11.40**

Cabinet or Electricians' Pattern



Length of Blade, In.	2½	3½	4½	5½	6½	8½	10½
Catalog No.	**SGS102½**	**SGS103½**	**SGS104½**	**SGS105½**	**SGS106½**	**SGS108½**	**SGS110½**
Dia. of Blade, In.	3/16	3/16	3/16	3/16	3/16	3/16	3/16
Length Over All, In.	6 3/8	7 3/8	8 3/8	9 3/8	10 3/8	12 3/8	14 3/8
Approx. Weight, lbs., ½ Doz., Boxed	¾	¾	1	1	1	1¼	1¼
Suggested List Price, Per Dozen	**$3.95**	**$4.05**	**$4.15**	**$4.25**	**$4.35**	**$4.60**	**$4.80**

Packed Half Dozen in a Box

Vlchek "BUCKEYE" Screw Drivers

THIS is a sturdy, well made driver, nicely finished, at an economical price. Blade is heat-treated, tempered and polished all over; ferrule nickel plated and held in position by an attractive knurling. The handle is very conveniently shaped, and is finished in an attractive cherry stain. The "Buckeye" is furnished in both the regular pattern and "Radio-Electricians'" pattern; the latter is furnished in 2½, 4½ and 6½ inch lengths, with the small, compact handle desired for use in close quarters, with straight sided blades.

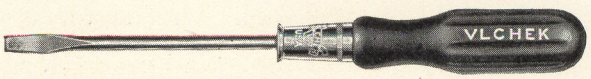
"Buckeye" screw drivers are stamped with Vlchek Insignia, which is our GUARANTEE.

Refer to other side for sizes.

Vlchek "BUCKEYE" Screw Drivers

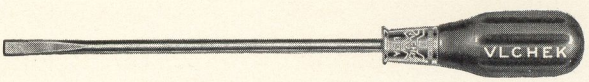
Regular Pattern

Round Shank—Polished Blades



Length of Blade, Inches...	2½	3	4	5	6	8	10	12
Catalog No.....	**SB102½**	**SB103**	**SB104**	**SB105**	**SB106**	**SB108**	**SB110**	**SB112**
Dia. of Blade, Inches.....	3/16	7/32	¼	5/16	5/16	3/8	3/8	3/8
Length Over All, Inches..	6¼	7½	9	10½	11½	14	16	18
Approx. Weight, lbs., ½ Doz., Boxed.....	¾	¾	1	1¾	2	3	3½	4
Suggested List Price, Per Dozen.....	**$3.15**	**$3.15**	**$3.20**	**$3.80**	**$3.90**	**$6.30**	**$7.10**	**$7.90**

Radio—Electricians' Pattern



Length of Blade, Inches.....	2½	4½	6½
Catalog No.....	**SBS102½**	**SBS104½**	**SBS106½**
Diameter of Blade, Inches.....	3/16	3/16	3/16
Length Over All, Inches.....	5⅛	7⅛	9⅛
Approx. Weight, lbs., ½ Doz., Boxed.....	¾	¾	1
Suggested List Price, Per Dozen.....	**$3.05**	**$3.05**	**$3.15**

Packed Half Dozen in a Box

Vlchek "EUCLID" Screw Drivers

THE "EUCLID" is a new and distinctive "Vlchek" design (patent applied for). The ferrule is shorter and more compact than in the standard pattern and is rolled firmly into place in a special machine. It is impossible to remove the ferrule without absolutely destroying the handle. One of its outstanding advantages is the very large, easy hand grip incorporated in the handle, which is actually more compact than the regular pattern. The ferrule is short and inconspicuous, making this one of the safest wood-handle Drivers for use on electrical work. The blades are of the same analysis steel as our regular Drivers, tempered and polished all over; the ferrule is nickel plated and the handle finished in a smooth, lustrous black.

The "EUCLID" is supplied in both the Regular Pattern and Cabinet or Electricians' Pattern. Tips of the blades are magnetized in the latter pattern.

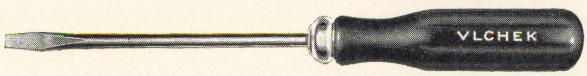
All "EUCLID" Screw Drivers are plainly marked Vlchek, which is our GUARANTEE.

Refer to other side for sizes.

Vlchek "EUCLID" Screw Drivers

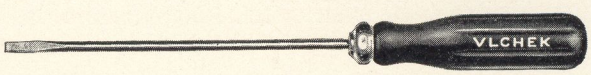
Regular Pattern

Round Shank—Polished Blades



Length of Blade, Inches...	2½	3	4	5	6	8	10	12
Catalog No.....	**SE102½**	**SE103**	**SE104**	**SE105**	**SE106**	**SE108**	**SE110**	**SE112**
Dia. of Blade, Inches.....	3/16	7/32	1/4	5/16	5/16	5/16	5/16	5/16
Length Over All, Inches...	6 5/8	7 1/8	8 5/8	10 1/8	11 1/8	13 1/8	15 1/8	17 1/8
Approx. Weight, lbs., ½ Doz., Boxed.....	3/4	1	1 1/4	1 3/4	2	2 1/4	2 1/2	2 3/4
Suggested List Price, Per Dozen.....	**$2.50**	**$2.55**	**$2.70**	**$3.15**	**$3.25**	**$4.50**	**$5.40**	**$6.30**

Cabinet or Electricians' Pattern



Length of Blade, In..	2½	3½	4½	5½	6½	8½	10½
Catalog No.....	**SES102½**	**SES103½**	**SES104½**	**SES105½**	**SES106½**	**SES108½**	**SES110½**
Dia. of Blade, In....	3/16	3/16	3/16	3/16	3/16	3/16	3/16
Length Over All, In..	6 5/8	7 5/8	8 5/8	9 5/8	10 5/8	12 5/8	14 5/8
Approx. Weight, lbs., ½ Doz., Boxed.....	3/4	3/4	1	1	1	1 1/4	1 1/4
Suggested List Price, Per Dozen.....	**$2.40**	**$2.45**	**$2.45**	**$2.50**	**$2.55**	**$2.90**	**$3.05**

Packed Half Dozen in a Box

Vlchek "SHOK-LESS" Screw Drivers

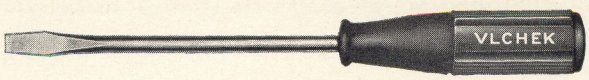
THESE drivers fill the need for a high grade, economical Insulated Screw Driver. Handles are made of insulating composition moulded on the blades under a pressure of 50 tons. An attractive appearance and firm, sure grip have been built into this screw driver, a feature which is not always accomplished in moulded products. Improvements in manufacture and in composition have resulted in greater value than ever before. The handle of this screw driver, however, does not possess the toughness and resistance to abuse incorporated in a wood handle driver. We wish to stress its general utility and attractiveness as an all-around tool, where occasionally high shock-resisting qualities are desired, as well as its undoubted value where resistance to shock is of first importance.

Blades are heat-treated, carefully tempered and polished all over.

All "SHOK-LESS" screw drivers are marked Vlchek, which is our GUARANTEE.

Refer to other side for sizes.

Vlchek "SHOK-LESS" Screw Drivers



Round Shank—Polished Blades

Length of Blade, Inches	3	4½	6
Catalog No.	**SM103**	**SM104½**	**SM106**
Diameter of Blade, Inches	7/32	¼	5/16
Length Over All, Inches	6¾	8 9/16	10⅜
Approx. Weight, lbs., ½ Doz., Boxed	1¼	1¾	2½
Suggested List Price, Per Dozen	**$2.65**	**$2.90**	**$3.15**

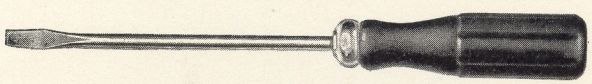
Packed Half Dozen in a Box

Vlchek "CAPITOL" Screw Drivers

THESE Screw Drivers are brought out in a limited range of sizes, to furnish the utmost of economy, enabling you to meet competitive conditions. "Capitol" screw drivers embody the same superior ferrule construction as the higher grade Euclid line.

Blades are tempered, and polished all over; ferrule nickel plated, and handle is cherry-stained. Can be supplied packed one dozen to a box or in a popular assortment.

See other side for assortment.



Round Shank—Polished Blades

Length of Blade, Inches	3	4	5
Catalog No.	**SC103**	**SC104**	**SC105**
Diameter of Blade, Inches	7/32	1/4	1/4
Length Over All, Inches	6 3/4	8 1/8	9 1/8
Approx. Weight, lbs,, 1 Doz., Boxed	1 3/4	2 1/2	2 3/4
Suggested List Price, Per Dozen	**$1.87**	**$1.98**	**$2.03**

Packed One (1) Dozen in a Box

Vlchek "CAPITOL" Screw Drivers

ASSORTMENT No. ASC12

Round Shank—Polished Blades

THIS assortment has been selected after the most careful study of demand for particular sizes.

3 - **No. SC103,** 3″ Capitol Screw Drivers

6 - **No. SC104,** 4″ Capitol Screw Drivers

3 - **No. SC105,** 5″ Capitol Screw Drivers

Packed one (1) assortment in box.

No. ASC12, Capitol Screw Driver Assortment..... Per Set, **$1.95**

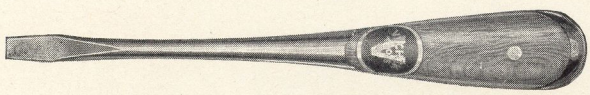
Approx. Weight, per Assortment Boxed . . 2¼ lbs.

Refer to other side for details, and screw drivers in open stock.

Vlchek "PERFECT HANDLE" Screw Drivers

THIS Screw Driver is drop-forged in one-piece. Made of special analysis steel produced to withstand hard service. Both blade and shank are scientifically heat treated. Particular care is given to the temper.

Handle is natural wood, polished, seasoned against shrinkage and riveted eliminating splitting or loosening of handle.



Round Shank—Polished Blades

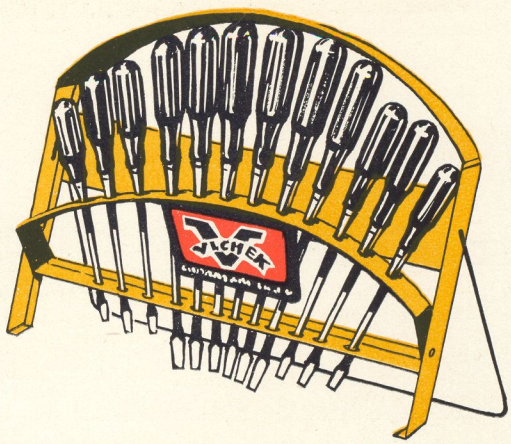
Length of Blade, Inches	2	3	4	5	6	8
Catalog No.	**SK102**	**SK103**	**SK104**	**SK105**	**SK106**	**SK108**
Diameter of Blade, Inches	1/4	1/4	5/16	5/16	5/16	3/8
Length Over All, Inches	5 3/4	7 3/4	8 3/4	10	11 3/8	14 1/2
Approx. Weight, lbs., 1/2 Doz., Boxed	1 1/4	1 3/4	2 1/2	2 3/4	3	5 1/2
Suggested List Price, Per Dozen	**$4.50**	**$4.50**	**$4.80**	**$5.60**	**$6.75**	**$9.00**

Packed Half Dozen in a Box

MERCHANDISER

Sells More Screw Drivers

Increases Your Profits


Painted Standard N. R. H. A. Yellow
Improved Locking Device in the Back
Requires 16" x 7" Counter Space
Rack Tilts Forward
VLCHEK

Each Dealer Knows Best The Style and Sizes of Screw Drivers His Customers Call For

THIS attractive Metal Display is sold separately and so designed as to accommodate all types of Screw Drivers, permitting the Dealer to select his own assortment to meet with his individual needs.

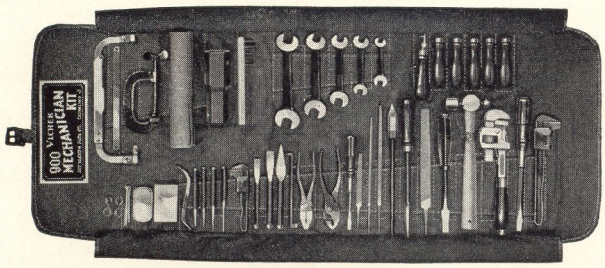
The Display is so designed that it is theft proof, thus quickly paying for itself — yet by turning a small, simple locking device, permits clerk to remove Driver.

Suggested Price to Dealer (Rack Only), 50 cents

Approximate Weight, Merchandiser Only, in Carton.....2 lbs.

Hardware — VLCHEK GUARANTEED TOOLS — *Automotive*

Mechanician Kit



No. 900

Thirty-nine Pieces

A most complete assortment of highest quality tools, every one practical and indispensable, everything necessary for making all repairs on the road or in the garage.

Consists of the Following Tools:

No. 723 Semi-finished 15° Angle Drop Forged Wrench
No. 725 Semi-finished 15° Angle Drop Forged Wrench
No. 727 Semi-finished 15° Angle Drop Forged Wrench
No. 729 Semi-finished 15° Angle Drop Forged Wrench
No. 731 Semi-finished 15° Angle Drop Forged Wrench
No. 2 Machinists' Standard Bearing Scraper
10″ Stillson Pipe Wrench
12-oz. Machinists' Ball Pein Hammer
9″ Automobile Wrench, Ebony
5″ Automobile Wrench, Ebony
$^{29}/_{32}$″ x $1^{5}/_{32}$″ Spark Plug Socket Wrench, Ebony
6″ Combination Pliers, Ebony
9″ Machinists' All Steel Screw Driver, Polished Shank, Ebony Handle
3″ Round Shank Screw Driver, Polished
5″ Square Shank Screw Driver, Polished
8″ Square File with Handle
$^{3}/_{8}$″ Vlchek Solid Punch, Red and Ebony, Half Polished
$^{5}/_{16}$″ Vlchek Solid Punch, Red and Ebony, Half Polished
$^{3}/_{8}$″ Vlchek Drift Punch, Red and Ebony, Half Polished
$^{3}/_{8}$″ Vlchek Center Punch, Red and Ebony, Half Polished

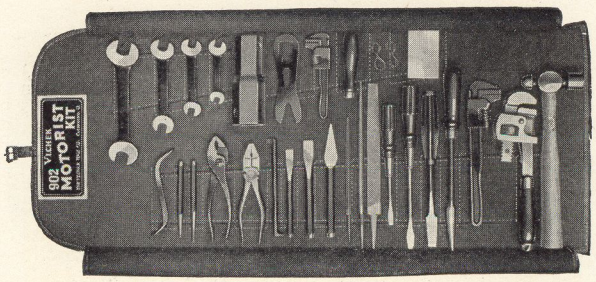
$^{1}/_{2}$″ Vlchek Cape Chisel, Red and Ebony, Half Polished
$^{5}/_{16}$″ Cotter Pin Extractor, Ebony
6″ Side Cutting Pliers
6″ Offset Drop Forged Screw Driver, Ebony
3-Sheets Emery Cloth
8″ Round File with Handle
Soldering Iron with Handle
Box Solder Paste
2 Bundles No. 15 Copper Wire
8″ Hack Saw and Frame
4″ Flat File with Handle
$^{1}/_{2}$″ Vlchek Cold Chisel, Red and Ebony, Half Polished
$^{3}/_{8}$″ Vlchek Cold Chisel, Red and Ebony, Half Polished
Wire Solder
Spark Plug Brush
8″ Flat File with Handle
$2^{1}/_{2}$″ Carriage-makers' Clamp, Ebony
Box Assorted Cotter Pins

No. 900 Individual Pocket Case, Made from Heavy Brown Duck

Suggested List Price, Per Set, **$21.30**

Packed One in a Carton

Motorist Kit



No. 902

Thirty Pieces

An excellent kit, containing all tools necessary for making ordinary repairs. All tools of the highest grade and fully warranted. Case is made from waterproof, Enameled Drill material. We recommend this kit to the automobile owners.

Consists of the Following Tools:

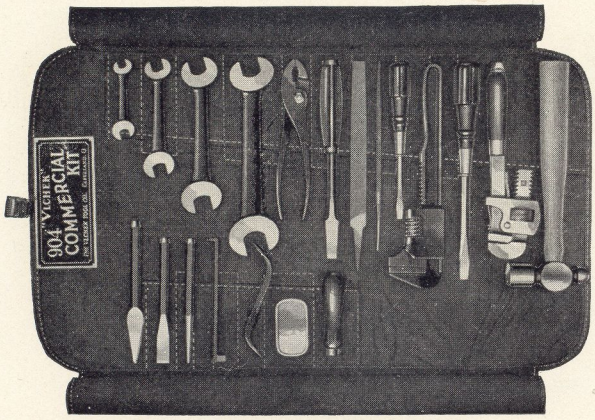
No. 723 Semi-finished 15° Angle Drop Forged Wrench
No. 725 Semi-finished 15° Angle Drop Forged Wrench
No. 727 Semi-finished 15° Angle Drop Forged Wrench
No. 731 Semi-finished 15° Angle Drop Forged Wrench
10″ Stillson Pipe Wrench
Single Jaw Wrench, Ebony
3″ Round Shank Screw Driver, Polished
5″ Round Shank Screw Driver, Polished
9″ Machinists' All-Steel Screw Driver, Polished Shank, Ebony Handle
6″ Offset, Drop Forged Screw Driver, Ebony
6″ Combination Pliers, Ebony
3/8″ Vlchek Solid Punch, Red and Ebony, Half Polished
3/8″ Vlchek Center Punch, Red and Ebony, Half Polished
9″ Automobile Wrench, Ebony
12 oz. Machinists' Ball Pein Hammer
No. 2 Machinists' Bearing Scraper
3/8″ Vlchek Cold Chisel, Red and Ebony, Half Polished
1/2″ Vlchek Cold Chisel, Red and Ebony, Half Polished
1/2″ Vlchek Cape Chisel, Red and Ebony, Half Polished
5/16″ Cotter Pin Extractor, Ebony
File Handle
8″ Flat File
6″ Side Cutting Pliers
29/32″x1 5/32″ Spark Plug Socket Wrench, Ebony
Box Assorted Cotter Pins
8″ Round File
6″ Three Corner File
5″ Auto Wrench, Ebony
2 Bundles Copper Wire

No. 902 Individual Pocket Case Made from Enameled Drill Material

Suggested List Price, Per Set, **$14.85**

Packed One in a Carton

Commercial Kit



No. 904 Semi-Finish **No. 904-B** Natural Finish

Twenty Pieces

Made up of tools particularly adapted to use on a truck. All large, heavy tools selected for strength and extra quality. This set is used extensively by shop men in all vocations.

Consists of the Following Tools:

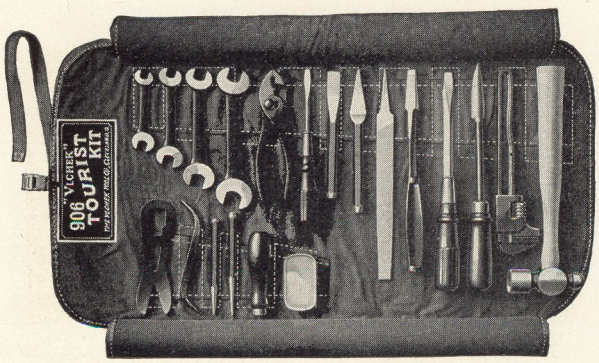
No. 723 15° Angle Drop Forged Wrench
No. 727 15° Angle Drop Forged Wrench
No. 731 15° Angle Drop Forged Wrench
No. 34 15° Angle Drop Forged Wrench
10″ Stillson Pipe Wrench
11″ Automobile Wrench
3″ Round Shank Screw Driver
5″ Square Shank Screw Driver
6″ Offset, Drop Forged Screw Driver
9″ Machinists' All-steel Screw Driver
8″ Flat File
8″ Round File
File Handle
8″ Combination Pliers
½″ Vlchek Solid Punch
½″ Vlchek Cold Chisel
½″ Vlchek Cape Chisel
5/16″ Cotter Pin Extractor
16 oz. Machinists' Ball Pein Hammer
Box Assorted Cotter Pins
No. 904 Individual Pocket Case Made from Enameled Drill Material

No. 904 Commercial Tool Kit, Semi-finished Tools. . . . Suggested List Price, Per Set, **$11.25**

No. 904-B Commercial Tool Kit, Natural Finished Tools. Suggested List Price, Per Set, **9.75**

Packed One in a Carton

Tourist Kit



No. 906 Semi-Finish **No. 906-B** Natural Finish

Twenty Pieces

This assortment is one of our best selling kits as it appeals to the prospective buyer who will do most of his own repair work.

All high grade tools.

Consists of the Following Tools :

No. 723 15° Angle Drop Forged Wrench
No. 725 15° Angle Drop Forged Wrench
No. 727 15° Angle Drop Forged Wrench
No. 729 15° Angle Drop Forged Wrench
Single Jaw Wrench
9″ Automobile Wrench
3″ Round Shank Screw Driver
5″ Square Shank Screw Driver
9″ Machinists' All-steel Screw Driver
8″ Flat File
6″ Combination Pliers
3/8″ Vlchek Solid Punch
3/8″ Vlchek Center Punch
1/2″ Vlchek Cold Chisel
1/2″ Vlchek Cape Chisel
5/16″ Cotter Pin Extractor
12 oz. Machinists' Ball Pein Hammer
No. 2 Machinists' Bearing Scraper
Box Assorted Cotter Pins
File Handle
No. 906 Individual Pocket Case Made from Enameled Drill Material

No. 906 Tourist Tool Kit, Semi-finished Tools.....Suggested List Price, Per Set, **$8.40**

No. 906-B Tourist Tool Kit, Natural Finished Tools.....Suggested List Price, Per Set, **7.20**

Packed One in a Carton

Sterling Kit

No. 907 Semi-Finish **No. 907-B** Natural Finish

Fourteen Pieces

This assortment is made up to supply the demand for a low priced serviceable outfit. Tools are warranted high grade material. There is no tool kit on the market to equal this set at the price.

Consists of the Following Tools:

No. 723 15° Angle Drop Forged Wrench
No. 725 15° Angle Drop Forged Wrench
No. 729 15° Angle Drop Forged Wrench
Single Jaw Wrench
Box Assorted Cotter Pins
9″ Automobile Wrench
3″ Round Shank Screw Driver
4″ Round Shank Screw Driver
3/8″ Vlchek Solid Punch
3/8″ Vlchek Center Punch
1/2″ Vlchek Cold Chisel
5/16″ Cotter Pin Extractor
6″ Combination Pliers
10-oz. Machinists' Ball Pein Hammer
No. 907 Individual Pocket Case Made from Enameled Drill Material

No. 907 Sterling Tool Kit, Semi-finished Tools.....Suggested List Price, Per Set, **$4.80**
No. 907-B Sterling Tool Kit, Natural Finished Tools .....Suggested List Price, Per Set, **4.50**

Packed One in a Carton

Taxi Kit

No. 908 Semi-Finish **No. 908-B** Natural Finish

Twelve Pieces

This is a slightly different assortment than the one on the preceding page, permitting a little less price, and maintaining the same high quality.

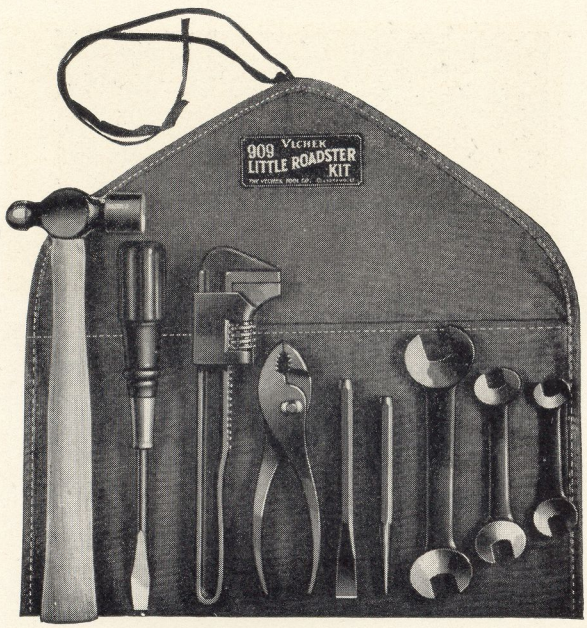
Consists of the Following Tools:

No. 723 15° Angle Drop Forged Wrench
No. 725 15° Angle Drop Forged Wrench
No. 729 15° Angle Drop Forged Wrench
9″ Automobile Wrench
5″ Square Shank Screw Driver
6″ Flat File and Handle
6″ Combination Pliers
3/8″ Vlchek Solid Punch
3/8″ Vlchek Cold Chisel
5/16″ Cotter Pin Extractor
Box Assorted Cotter Pins
10-oz. Machinists' Ball Pein Hammer
No. 908 Individual Pocket Case Made from Enameled Drill Material

No. 908 Taxi Tool Kit, Semi-finished Tools.....Suggested List Price, Per Set, **$4.20**
No. 908-B Taxi Tool Kit, Natural Finished Tools.....Suggested List Price, Per Set, **3.90**

Packed One in a Carton

Little Roadster Kit



No. 909 Semi-Finish **No. 909-B** Natural Finish

Nine Pieces

We maintain the same high quality of tools in this kit as in those preceding.

Consists of the Following Tools:

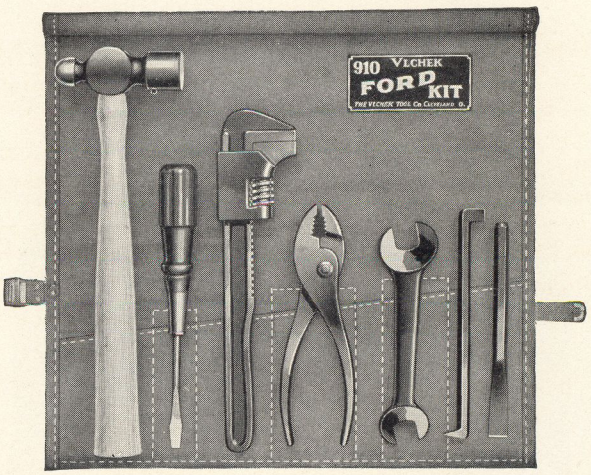
No. 723 15° Angle Drop Forged Wrench, Hardened
No. 725 15° Angle Drop Forged Wrench, Hardened
No. 729 15° Angle Drop Forged Wrench, Hardened
9″ Automobile Wrench
4″ Round Shank Screw Driver
3/8″ Vlchek Solid Punch
3/8″ Vlchek Cold Chisel
6″ Combination Pliers
10 oz. Machinists' Ball Pein Hammer
No. 909 Envelope Case made from Enameled Drill Material

No. 909 Little Roadster Tool Kit, Semi-finished Tools. . . Suggested List Price, Per Set **$3.00**

No. 909-B Little Roadster Tool Kit, Natural Finished Tools. . Suggested List Price, Per Set **2.70**

Packed One in a Carton

Kit for Ford Car



No. 910 Semi-Finish **No. 910-B** Natural Finish

Seven Pieces

This set contains all of the regular tools furnished with the Ford car and in addition some tools very necessary in emergencies. Tools are of the best quality and finish.

Consists of the Following Tools:

9″ Automobile Wrench
3″ Round Shank Screw Driver
6″ Combination Pliers
⅜″ Vlchek Cold Chisel
No. 727 15° Angle Drop Forged Wrench
6″ Offset Screw Driver
10-oz. Machinists' Ball Pein Hammer
No. 910 Individual Pocket Case made from Enameled Drill Material

No. 910 Kit for Ford Car, Semi-finished Tools.....Suggested List Price, Per Set, **$2.85**
No. 910-B Kit for Ford Car, Natural Finished Tools.....Suggested List Price, Per Set, **2.55**

Packed One in a Carton

Tool Kits Recommended For Used Cars Assembled in Individual Pocket Cases

No. 1992—5-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
3½″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
⅜″ Stand. Cold Chisel, Natural Finish.
No. 3001 Individual Pocket Case.

Approximate Weight, per Kit.....2 lbs. 7 oz.

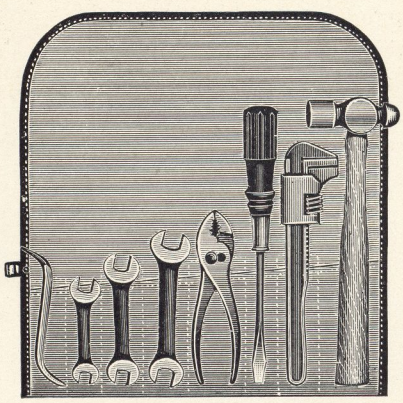
Suggested List Price.....Per Set, **$1.60**

No. 1981—6-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
3½″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
⅜″ Stand. Cold Chisel, Natural Finish.
No. 25 Unfinished Tempered Wrench.
No. 1839 Individual Pocket Case.

Approximate Weight, per Kit....2 lbs. 10 oz.

Suggested List Price.....Per Set, **$1.80**



No. 1982—7-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
3½″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
⅜″ Stand. Cold Chisel, Natural Finish.
No. 23 Unfinished Tempered Wrench.
No. 27 Unfinished Tempered Wrench.
No. 3003 Individual Pocket Case.

Approximate Weight, per Kit....2 lbs. 13 oz.

Suggested List Price.....Per Set, **$1.95**

No. 1983—8-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
5″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
$\frac{5}{16}$″ Cotter Pin Extractor, Natural Finish.
No. 23 Unfinished Tempered Wrench.
No. 25 Unfinished Tempered Wrench.
No. 27 Unfinished Tempered Wrench.
No. 1983 Individual Pocket Case.

Approximate Weight, per Kit....3 lbs. 3 oz.

Suggested List Price.....Per Set, **$2.20**

Electros can be furnished on any of the above assortments.

Tool Kits Recommended For Used Cars Assembled in Draw String Bags

No. 1980—5-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
3½″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10 oz. Ball Pein Hammer, Natural Finish.
⅜″ Stand. Cold Chisel, Natural Finish.
No. 711 Draw String Bag.

Approximate Weight, per Kit....2 lbs. 6 oz.

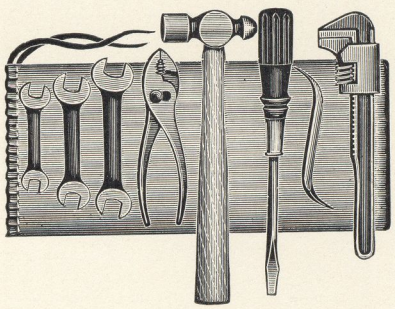
Suggested List Price.....Per Set, **$1.45**

No. 2109—6-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
3½″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
⅜″ Stand. Cold Chisel, Natural Finish.
No. 25 Unfinished Tempered Wrench.
No. 711 Draw String Bag.

Approximate Weight, per Kit....2 lbs. 9 oz.

Suggested List Price.....Per Set, **$1.55**



No. 2110—7-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
3½″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
⅜″ Stand. Cold Chisel, Natural Finish.
No. 23 Unfinished Tempered Wrench.
No. 27 Unfinished Tempered Wrench.
No. 711 Draw String Bag.

Approximate Weight, per Kit....2 lbs. 12 oz.

Suggested List Price.....Per Set, **$1.65**

No. 2111—8-pc. Tool Kit, consists of:

9″ Auto Wrench, Natural Finish.
5″ Round Shank Screw Driver, Natural Finish.
6″ Combination Pliers, Natural Finish.
10-oz. Ball Pein Hammer, Natural Finish.
$\frac{5}{16}$″ Cotter Pin Extractor, Natural Finish.
No. 23 Unfinished Tempered Wrench.
No. 25 Unfinished Tempered Wrench.
No. 27 Unfinished Tempered Wrench.
No. 711 Draw String Bag.

Approximate Weight, per Kit....3 lbs. 1 oz.

Suggested List Price.....Per Set, **$1.90**

Electros can be furnished on any of the above assortments.

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